THE CHEMIST AND DRUGGIST

ESTAB. 1859

REGISTERED AS A NEWSPAPER.

TELEPHONE: CENTRAL 3617;
TELEGRAMS: "CHEMICUS, CANNON, LONDON" (2 Words).

PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.

SUBSCRIPTION, WITH DIARY 20/- PER ANNUM
SINGLE COPIES 9d.

No. 2123 OCTOBER 2, 1920. VOL. XCIII.

BOVAL FLOOR GLOSS

For Preparing

Ball-Room Floors

In Sprinkler-Top Containers, **1/6** and **2/6** P.A.T.A. Minimum.

STOCKED BY LONDON HOUSES.

JAMES WOOLLEY, SONS & CO., LTD., MANCHESTER.

Price 25s. net. Chemists, 23s.

Post Free (inland) 24s.

Reprint of Nineteenth Edition.

SQUIRE'S COMPANION

TO THE

BRITISH PHARMACOPŒIA, 1914.

Published by J. & A. CHURCHILL,

7 Gt. Marlborough St., W. 1.

The Pharmaceutical Journal says—"A companion, in the true sense of the word, to the official book."

The Chemist & Druggist says—"It maintains its unique position as a national work of reference."

The British Medical Journal says—"No labour has been spared to make the COMPANION a complete, scientific and practical adjunct to the BRITISH PHARMACOPŒIA."

Descriptive leaflet gratis.

Price 12s. 6d. net. Post Free (inland) 13s. 2d.

2nd Edition (Revised).

SQUIRE'S POCKET COMPANION

TO THE

BRITISH PHARMACOPŒIA, 1914.

Published by J. & A. CHURCHILL,

7 Gt. Marlborough St., W. 1.

The Chemist and Druggist says—"The richness of the book in Chemical, Physical and Pharmaceutical data, in Compounding Hints, in non-official Formulas, makes the Pocket Companion of as much value to Dispensers as to Prescribers."

The British Medical Journal says—"Sufficient has been said to show that the contents of this Pocket Companion fully justify its name; it can be strongly recommended to practitioners."

The Lancet says—"The Pocket Companion shows evidence of considerable judicious forethought in the selection of data likely to be of service to a wide class of readers."

Descriptive leaflet gratis.

SQUIRE & SONS, Ld., 413 Oxford St., London, W.1

The King's Chemists.

Index to Advertisers, pp. 5 & 6.

SPASMODIN (REGD.)

(W. J. Bush's Physiologically Pure Benzyl Benzoate).

IMPORTANT.

THE attention of the Medical Profession is directed to the remarkable results obtained by Dr. David I. Macht in the pharmacological investigation of this new antispasmodic, as summarised by him in a communication to the recent Seventieth Annual Session of the American Medical Association (Journal American Medical Association, 1919, 73, 599). At the same meeting Dr. Jennings C. Litzenberg read a communication on "The Use of Benzyl Benzoate in Dysmenorrhoea" (*ibid.* 601).

Please obtain your supplies through Wholesale Drug Houses, specifying SPASMODIN (W. J. Bush's physiologically pure Benzyl Benzoate).

MANUFACTURED BY

W. J. BUSH & CO. Ld.

Ash Grove Works, HACKNEY,

LONDON, E. 8.

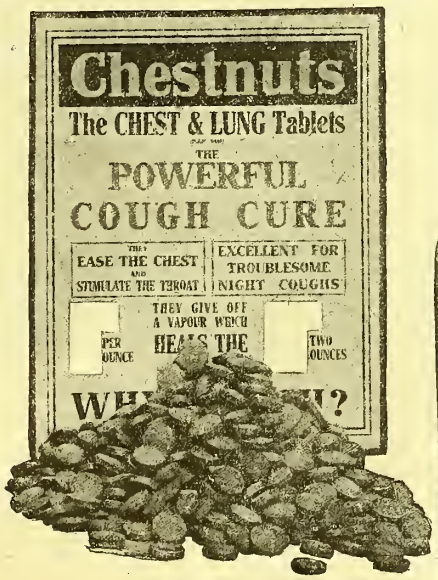
Telephone No.: Dalston 461 (5 lines). Telegraphic Address: "Tangerine London."

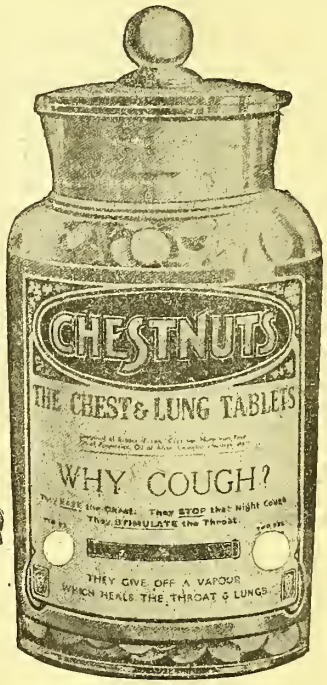
The most popular of all winter cough tablets

"CHESTNUTS" OR CHEST AND LUNG TABLETS

A high-class and most efficient tablet, supplied in bulk for sale loose over the counter.

Composed of Balsam of Tolu, Capsicum, Oil of Pine, Oil of Peppermint, Oil of Aniseed, Liquorice, etc.





Complete set of Window Display Material supplied.

SHOWJARS AT COST.

7 lb. ... 2/8 per lb.	28 lb. ... 2/6 per lb.	2 cwt. ... 2/3 per lb.
14 ,, ... 2/7 ,, ,,	56 ,, ... 2/5 ,, ,,	5 ,, ... 2/2 ,, ,,
	112 ,, ... 2/4 ,, ,,	

A supply of cartons is sent free with each order.

Also, at the same price, compressed BROMPTON HOSPITAL LOZENGES.

Carriage paid on all orders for £3.

ARTHUR H COX & CO LTD

Manufacturing Chemists

BRIGHTON ENGLAND

TRADE MARK

Established 1839

Cable Address
"COX BRIGHTON"
Codes:-
MARCONI INTERNATIONAL
and
ABC 5th & 6th Edition.

Vibrona

The IDEAL TONIC WINE

VITIS VINIFERA

CINCHONA SUCCIRUBRA

Minimum Wholesale Prices are now as follows :—

Cases containing 1 dozen ... **57 -** per case net, *carriage forward.*

Cases containing 2 dozen, **£5 14s.** per case net, *carriage paid.*

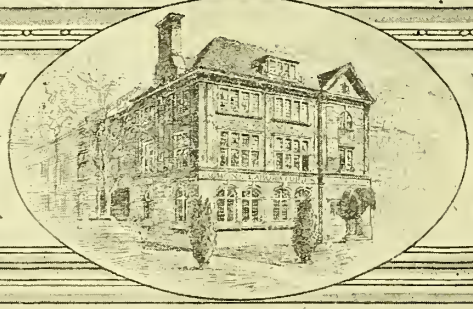
Cases containing 3 dozen, **£8 10s.** per case net, *carriage paid.*

The fixed retail price of VIBRONA is 6/- per bottle.

The profit realised on each 3 dozen case is ***£2 6s.,*** *or over* ***27*** *per cent. on the invoice price.*

Ample supplies of VIBRONA are now available for prompt delivery.

ALGÆ



ALGÆ

SOLE PROPRIETORS

FLETCHER, FLETCHER & Co Ltd, LONDON & SYDNEY

COPYRIGHT

Graesser-Monsanto * Graesser-Monsanto * Graesser-Monsanto * Graesser-Monsanto *

Carbolic Acid Crystals

Ice, 39/41° C. Detached, 40° C. Liquefied, 40° C.

Ortho-Cresol
28/30° C.

Meta-Cresol
98/100 %, 75/80 %, 60 %

Para-Cresol
31/33° C.

Nitrophenols

Nitrocresols

" Acrosyl "
(British Lysol)

All qualities of Cresylic Acid, and Special Cresol.

THE GRAESSER-MONSANTO CHEMICAL WORKS, LTD

WORKS: RUABON N. WALES.
Established 1867.
London Office: 62, London Wall, E.C., 2.

Telephones { 3 RUABON.
4613 LONDON WALL.

Telegrams { GRAESANTO, RUABON.
GRAESANTO, LONDON.

GM

Salicylic Acid

Phenacetin
Acetanilid
Aspirin
Vanillin
Coumarin

Sodium Salicylate
Anthranilic Acid
Phthalic Anhydride
Phenolphthalein
Salol

Glycerophosphates

Graesser-Monsanto * Graesser-Monsanto * Graesser-Monsanto * Graesser-Monsanto *

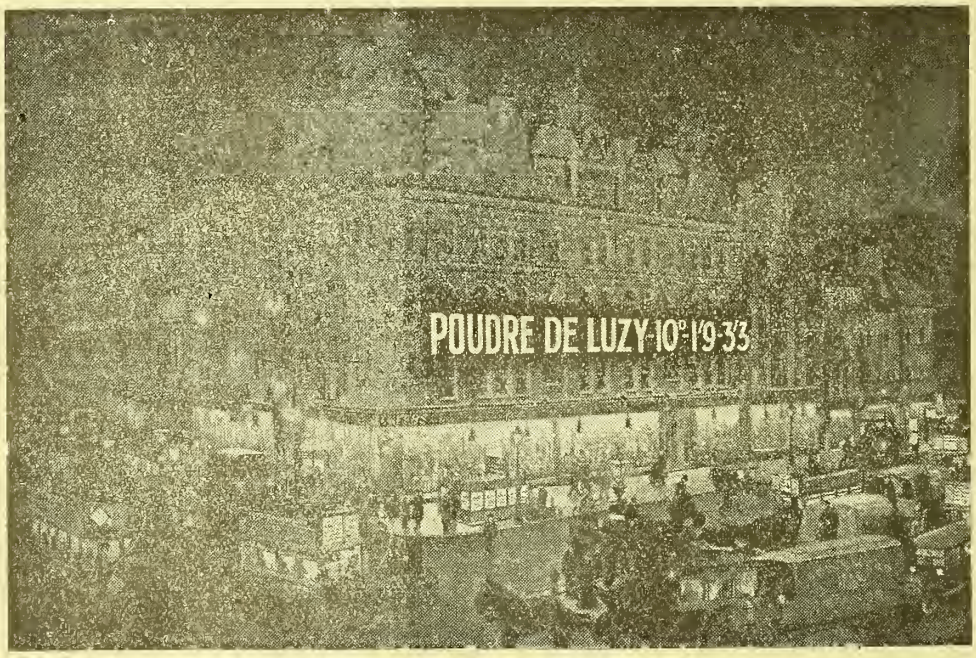
LONDON CHEMISTS!

We have two Announcements to make that should interest you

1. Mr. A. J. Rickford, formerly with Messrs. Allen & Hanburys, has joined our travelling staff with a view to showing our goods to all London Chemists that are not already acquainted with them. We trust you will oblige by inspecting his samples when he calls, and feel convinced you will quickly recognise the merit of our lines.

2. We have placed an order for an Electrograph Spelling Sign to appear from Oct. 1st onwards at the corner of Oxford Street and Tottenham Court Road. It will catch the eyes and strike the imagination of millions, we trust you will strengthen this advertising and our Tube and newspaper advertising by making a bold display of

DE LUZY



WRITE FOR TARIFF OF DE LUZY LINES, AND DON'T BUY XMAS PERFUMES UNTIL YOU HAVE INSPECTED OUR SAMPLES.

W. H. CALNAN & COMPANY,

30-32 LUDGATE HILL, LONDON, E.C. 4.

INDEX TO ADVERTISERS

Active Service School of Advtg. lvi
Alliance Drug & Chem Co., *Chemicals* xiv
American Commerce Co., Ld., *Chemicals* vi
Amsterdam Quinine Works xxii
Anglo-French Drug Co., Ld. xxviii
Anglodol, Ld., *Dental Paste* 28
Anzora Perfumery Co., *Hair Cream* ... 26
Areco, Ld., *Toilet Preps.* 25
Aerighi, E. S., *Clinical Thermometers* liii
Ayrton, Saunders & Co., Ld., *Wholesale Druggists* 15
Bailey, R., & Son, Ld., *Capsicum Tissue* 18
Baker, Parson C., *Chemists' Valuer* Col. Supp.
Bandoeng Quinine Factories xxii
Banister Street Works, Ld., *Machinery* xlix
Barradell, J. T., *Chamois Leathers, &c.* 38
Battin, H., & Co., Ld., *Essential Oils* 20
Beecham, Thomas, *Pills* xxiv
Bell, J., & Croydon, Ld. ..... Text
Bell (John), Hills & Lucas, Ld. ... Cover
Benzoates, Ld., *Chemicals* ix
Berdoe & Fish ..... Col. Supp.
Berk, F. W., & Co., Ld. ix
Berry's, J. B., Sons, Co. Inc., *Pet. Prods.* xxxv
Berton, Arthur, Ld., *Douches* xlvii
Bishop, Alfred, Ld., *Fruit Saline* ... xliv
Blagden, Victor, & Co., *Chemicals* ... xviii
Blinblow Asthma Cure xxxi
Blythe, W., & Co., Ld., *Epsom Salts* ... iv
Boake, A., Roberts & Co., Ld., *Essences* xliii
Boisselier, A., & Lawrence, *Drugs* ... x
Bond, J. (London), Ld., *Marking Ink* lx
Boots Pure Drug Co., Ld., *Chemicals* 9
Boothroyd, H. T., Ld., *Emulsifiers* xlix
Bourjois, A., & Cie, Ld. 22
Bovril, Ld. 48
British Casein Co. xiii
British Cellulose & Chemical Mnfg. Co., Ld., *Calcium Carbide* xi
British Cyanides Co., Ld. ..... Cover
British Diamalt Co., Ld. xxxviii
British Drug Houses, Ld. *Syrup of Figs* 52
British Dyestuffs Corporation, Ld. iv
Bromage, G., & Co., *Ess. Oils, &c.* 20
Bronnley, H., & Co., Ld., *Perfumery* iii
Brooks, Peel & Co., Ld., *Coll. Tubes* liv
Browning, The Wm., Co., Ld., *Semprolia* i
Bull, D. W., *Capsules* ..... Text
Burge, Warren & Ridgley, Ld., *Hot-Water Bottles, &c.* lxiv
Burgoyne, Burbidges & Co., *Cod Liver Oil Emulsion, &c.* xxxix
Burkett, Sharp & Co., Ld., *Chemicals &c.* xi
Burnside & Co., *Eucalyptus* xxi
Burrough, J., Ld., *Absolute Alcohol* Text
Burroughs Wellcome & Co., *'Huzeline' Snow* 51
Bush, W. J., & Co., Ld., *Chemicals* Cover
Bush, Beach & Gent, Inc., *Chemicals* vi
Cadbury Bros., *Cocoa* ..... Cover
Callard & Co., *Vitmar* xl
Calnan, W. H., & Co., *Perfumery* 4
Camwal, Ld., *Mineral und Aerated Waters* ..... xlii, xliii
Carmichael, F. J., & Co., *Camomiles* ... xv
Carr, G., & Co., Ld., *Tablets* xvii
Carreras, A. & E., *Toilet* 29
Carter, R. E., Ld., *Photo Albums* li
Cartwright, W. B., Ld., *Sundries* Cover
Casson Chemical Co., Ld., *Cold Cream* 32
Cephos, Ld., *Proprietary* xxx
Chatelain, J. L., *French Proprietaries* xxv
Chemical Works Madoery, Ld., *Mule Fern Extract* xxiii
Chiesman, F., & Co., *Olive Oil, &c.* xxxvii
Chiris, Antoine, Ld., *Chemicals* ii
Christy, T., & Co., *Shampoo* xxix, lviii
Clayton Aniline Co., Ld., *Chemicals* v
Coleman & Co., *Wincarnis* xlii
Conduit, Frank A., *Cut Perfume Bottles* 1
Condy & Mitchell, Ld. i
Connell, A., & Co., *Chemicals, &c.* ... xiii
Cook, E., & Co., Ld., *Toilet Soaps* ... 35
Cooper Laboratory, *Tablets* xvii
Cooper, Son & Co., Ld., *Cachets* ... lviii
Cox, Arthur H., & Co., Ld. 1
Crampton, J., & Co., Ld. xliv
Crookes' Laboratories xxvii
Cuxson, Gerrard & Co., Ld., *Zudor Jackets* 19
C.V.O. Chemical Works, Ld. xxxvi
Dale, J., Manufacturing Co. li
De Vilbiss Co., Ld., *Atomisers, &c.* xlvi
Dearborn, Ld., *Toilet Specialities* 32
Dee Oil Co., Ld., *Petroleum Jelly* xxxiv
Denoual, Jules, & Son, *Pastilles* xv
Depreter, A. E., *Brushes, &c.* 38
Dowell, J., & Sons, Ld., *Glassware* ... 46
Dudley & Co., *Cash Tills* xxxv
Eastern & Russian Trading Co., Ld. xxv
Eastern Trading Co., Ld., *Toilet* 29
Ecroyd & Co., *Home Dyes* lii
Elt's College, *Educational* lvi
Eno, J. C., Ld., *Fruit Salt* 45
Euthymol Tooth Paste 30
Evans, Gadd & Co., Ld., *Epsom Salts, &c.* xvi
Evan-Williams Co., Ld., *Shampoo* 26
Fassett & Johnson ..... 49, xlvii
Fentiman, A. G., *Mechanical Dentistry* lviii
Field, C. W., Ld., *Chemicals* ix
Fink, F., & Co., *Gums* lviii
Fletcher, Fletcher & Co., Ld., *Tonic Wine* 2
Ford, Shapland & Co., Ld., *Printing* 40
Fox, W., & Sons, *Health Salts* ... xl, lvii
Franklin, W., & Son, *Combination Scissors* 36
Frenkel, L., *Olive Oil* xxxvi
Gardiner & Co., *Overalls* 40
Garratt, J. E. *Newskin* xxx
George, E. J., *Stocktaking* ... Col. Supp.
Gignoux Freres & Barbezat xxiii
Gillard Gordon, Ld., *Eucalyptus* xxi
Gough, Kidston & Co., *Chemicals* ... xii
Gower, J., *Books* ..... Col. Supp.
Graesser-Monsanto Chemical Works, Ld., *Chemicals* 3
Greeff, R. W., & Co., *Chemicals* 6, 7
Grimsley & Co., *Machinery* xlviii
Guest, Thos., & Co., Ld., *Red Gum Pustilles* 43
Guildhall Corr. Paper Co. li
Hancock's, Ld., *Sundries* xlvi
Harker, C. R., Stagg & Morgan, Ld., *Pine Tablets* 10
Harwood Bros., *Pipes* lviii
Harley, T., *Rat Poison* lxi
Henry, T. & W., *Calcined Magnesia* xi
Hertz & Co., *Cod Liver Oil, &c.* xli
Heymans, Rene, *Douche Fittings* xlvii
Hind & Lund, Ld., *Machinery* xlix
Hoffmann-La Roche Chemical Works Ld., *Alkaloids, &c.* ix
Hollands Distillery, Ld., *Ess. Oils* 22
Hollandische Melksuikerfabiek xxii
Holliday, L. B., & Co., Ld. *Chemicals* xiv
Holt, Thompson & Co., *Salicylic Acid, &c.* iv
Hood, C. I., & Co., Ld., *Medicines* xxiv
Hough, Hoseason & Co., Ld. xxxii
Huisking, C. L., Inc., *American Drugs* xx
Hyde, A. V., *Advtg. Agent* lviii
Jackel et Cie (of Paris), Ld., *Hair Cream* 26

[*Continued overleaf.*

OLDFIELD PATTINSON & CO.

TELEGRAMS: "OPIUM MANCHESTER"

TELEPHONES: CITY 984 & 4038

Reliable House for all

Pharmaceutical Preparations

Concentrated Waters.

Concentrated Infusions.

Essential Oils.

OPIUM

B.P. Tinct. ... Aqueous Tinct.

Liquid Extracts.

Levigated Ointments.

Syr. Glycerophos Co.

"Silver Churn" Dairy Specialities.

MANCHESTER.

INDEX—cont.

Job Bros., *Cod Liver Oil* (Newfoundland) 44
Johnson, A., & Co. (London), Ld., *Drugs* x, xii
Josephs, Philip, & Sons, Ld. ... Col. Supp.
Jung Fratelli, *Ess. Oils* ... 21
Kay Bros., Ld., *Revised Prices* ... 8
Kent, G. B., & Sons, Ld., *Brushes* ... 40
Kerfoot, T., & Co., Ld., *Distols, &c.* 16, 17
Khambata, J., & Co., *Tartaric Acid* ... viii
Knox-Walker, J., & Co., Ld. ... 29
Kutnow, S., & Co., Ld. ... xlv
Lacoste et Cie, *Dentifrice* ... 32
Lane, C., & Sons. *Eucalyptus Oil, &c.* x
Lane Hall, R., & Co., Ld., *Chemicals, &c.* ... xiii
Lang, Jules, & Son, *Glassware* ... 50
Lankshear, Wickstead & Co., Ld. ... xii
Lathrop, H. R., & Co. Inc., *Senega Root* ... xxi
Lawrence, E., & Co., "*Gets-it*" ... xxx
Leconte, R., & Co., *Split Skins* ... li
Leicester Rubber Co., "*Mend-a-Tear*" liii
Leighton Laboratories, Ld., *Shampoo* lviii
Leysell Engineering Co., *Machinery* xlviii
Licenses & General Insurance Co., Ld. xxxviii
Linaris, Ld., *Toilet Preps.* ... 29
Linton, Hubbard & Andrew, *Saccharin* xiii
Lloyd, E., *Razor Paste* ... 36
Lofthouse & Saltmer, Ld., *Health Salts* xlv
Lonabarc Trading Co., *Essential Oils* 21
Lumex, Ld., *Photographic* ... lvii
M'Glashan, D., *Abdine* ... xl
Macfarlan, J. F., & Co., *Alkaloids* ... viii
Magnus, Mabee & Reynard Inc., *Ess. Oils* 21
Malmberg, K., *Petroleum Jelly, &c.* xxxiv, xxxv
Markt & Co. (London), Ld., *Sponges* 36
Martin & Co., *Toilet Specialists* ... 29
Mason Bros. & Chapman, *Surgical Instruments* ... xlvi
Maw, S., Son & Sons, Ld. ... 11
Mayfair Chemical Co., *Vacuum Flasks* 28
Meade-King, Robinson & Co., Ld. ... xxxiv
Mehta Bros., *Drugs, &c.* ... xxi
Millar, A., & Co., Ld., *Quinine Wine* lvi
Millard Bros., Ld., *Electric* ... liii
Mills, H., & Sons, *Shopfittings* ... lv
Milner, J., & Co., *Surgical Knives, &c.* ... xlvi
Milner's Chemical Co., *Railox* ... 1
Morris, Little & Son, Ld., *Sheep Dips, &c.* ... lxi
Morson, Thomas, & Sons, Ld., *Chemicals* ... xi
Murphy, J. F., *Antiphlogistine* ... xxvi
Myers, Lumos & Co., *Combs, &c.* ... lvi
Nassan, J., & Co., *Toilet Requisites* ... 23
Newbery, F., & Sons, Ld., *Sundries* ... 24
Newball & Mason, *Herb Extract* ... xliii
Norton, A. E., *Cameras* ... lvii
Oakey, John, & Sons, *Knife Polish* ... lxi
Oldfield, Pattinson & Co., *Pharm. Preps.* 5
Osborne, Garrett & Co., Ld., *Toilet Preps.* ... 41
P.A.T.A. ... xxx
Page, Chas., & Co., Ld., *Chemicals* ... xii
Paine & Co., Ld., *Malt Extract* ... xl
Parnall & Sons, *Shopfittings* ... lv
Pattinson & Mackie, Ld., *Lysolid* ... 13
Pears, A. & F., Ld., *Soaps* ... 31
Perry & Hope, Ld., *Malt Extract* ... 44
Pharmaceutical Lanoline Co., *Lanoline* xxxvi
Pifco Co., *Gas Mantles* ... lv
Potter & Clarke, Ld., *Floral Cachous* xxxiii
Powell, F. W., *Drugs and Chemicals* ... vi
Prescott & Co. ... Text
Preston's Liverpool Dist. Co., Ld. lviii
Price, A. S., & Co., Ld. ... xiv
Price's Patent Candle Co., *Glycerin* 34
Pyrea Co., *Pyrea Preps.* ... 28
Quelch, Henry C., & Co., *Manicure Specialities* ... 39
Raoul Freres, *Chemicals, &c.* ... xviii
Raphaels, Ld., *Spectacles, &c.* ... lxiii
Raworth, J. E., & Moss, *Pat. Agents* lviii
Raymet & Co., Ld., *Shampoo* ... 27
Reynolds & Branson ... Text
Robartes, Ld., *Toilet Preparations* ... 33
Roberts' Capsule Stopper Co., Ld., *Screw Caps* ... 1
Roberts' Patent Filling Machine Co. xlviii
Rooke, Dr. C., Ld., *Stock Changes* xxvi
Roques, Ferdinand, *Alkaloids, Cacodylates* ... xxv
Rose, J. L., *Pyrogallic Acid* ... xii
Royal Pharmaceutical Co., Ld. ... xxiii
Rozen, L., & Co., *Chemicals* ... xviii
Ruch, A., & Co., Ld., *Bottles* ... 46
Rudduck & Co. ... Col. Supp.
Sanagen Co., Ld., *Nerve Food* ... 42
Sanitas Co., Ld., *Disinfectants* ... Text
Sangers, *Ointments* ... 14
Sapounakis, Thomas, & Co., *Sponges* ... 37
Schutze, F., & Co., *Puffs* ... 29
Scurr, C. A., *Correspondence Course* 40, lviii
Scurr, H. W., *Manicure* ... lviii
Shadeine Co., *Hair Dyes* ... lviii
Sherborne, T., & Co., *Suspensory Bandages* ... xlvi
Smith, T. & H., Ld., *Chemicals* ... vii
Societeit Voor Chemische Industrie Katwijk, *Caffeine, &c.* ... xxiii
South of England College of Pharmacy ... lvi
Spatula Publishing Co., *Books* ... lv
Squire & Sons, Ld. ... Cover
Stearns, F., & Co., *Pepsins* ... xx
Stephens Bros. & Co., *Ess. Oils* ... 20
Sterns, Ld., *Oils, Petroleum, &c.* xxxv
Stephenson, R. A., Ld., *Gummed Tape* ... xxxv
Sunlight Manfg. Co., Ld., *Electric* ... liii
Sutcliffe & Bingham, *Kkovah Salts* xlv
Sutcliffe Ventilating & Drying Co. xlviii
Suter, W., & Co., *Chemicals* ... xviii
Suttley & Silverlock, Ld., *Printing* liv
Swales, Thomas, *Tooth Brushes, &c.* xlvi
Therapeutic Foods Co. ... xl
Thornley, S., Ld., *Methyl. Spirit* xxxvi
Timpson, John, & Co., Ld. ... 24
Titterton & Howard, *Brushware* ... 38
Tomlinson & Hayward, *Seed Dressing, &c.* ... 47
Toombs, A., & Co., *Capping Skins* ... 1
Transcontinental Agencies, Ld. ... xlii
Turner Bros. Asbestos Co., Ld. ... xlix
Tutorial College, Ld., ... Col. Supp.
Venesta, Ld., *Coll. Tubes* ... lii
Virol, Ld., *Laxative Food* ... 12
Viscose Co., Ld., *Bottle Cappings* ... lii
Waide, Thos., & Sons, *Chemists' Printing* ... 46
Wallace Heaton, Ld., *Photographic* lvii
Walton, T. H., & Co., Ld., *Tablets* xix
Western Tablet Co., Ld., *Tablets* ... xvii
Westminster College of Pharmacy lvi
Whiffen & Sons, Ld., *Emetine Salts* xv
Whitaker & Co., *Hat Dyes, Household Dyes* ... lxii
White, A., & Sons, Ld., *Acids, &c.* ... viii
Wilcox, Jozeau & Co. ... Text
Williams Bros. & Co., *Colours* ... lix
Williamson Bros., *Change of Address* 20
Willis, Low & Druife, *Perfume Brick* 24
Winter, E., & Co., Ld., *Silver Leaf, &c.* ... xv
Wood, Vincent, *Hot-Water Bottles* lviii
Woolacott, W. G., *Surgical* ... xlvi
Woolley, Jas., Sons & Co., Ld., *Boval Floor Gloss* ... Cover
Wrigglesworth, E. H., Ld. ... lx

QUININE

MAARSSEN

QUININE and QUININE SALTS.

Unexcelled in Uniformity of Quality,
Brilliant Crystallisation and Purity of Colour.

CINCHONINE, CINCHONIDINE, QUINIDINE, and their SALTS.

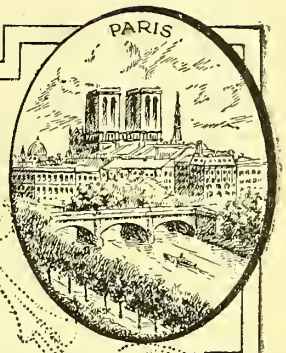
MANUFACTURED BY

NEDERLANDSCHE KININEFABRIEK, MAARSSEN, HOLLAND

AGENTS:— R. W. Greeff and Company,
Thames House, Queen Street Place,
LONDON, E.C.4.







PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS.

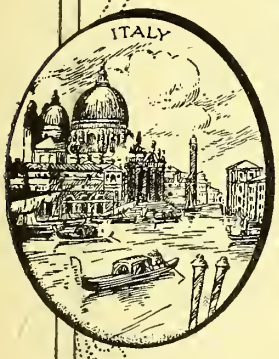
R. W. GREEFF & Co. offer at lowest prices the following products :

(WHOLESALE QUANTITIES ONLY)

Acetanilid
Acetone
Acetyl Salicylic Acid
Acid Lactic 1-21
Amidol
Amidopyrin
Barbitone
Benzoic Acid
Benzamine Hydrochlor.
Benzamine Lactate
Benzo Naphthol
Beta Naphthol
Bromides
Calcium Lactate
Chloral Hydrate
Cinchonine and Salts
Cinchonidine and Salts
Cocaine
Creosote Carbonate
Eucalyptus Oil
Gallic Acid
Glycerophosphates
Guaiacol Carbonate
Hexamine
Homatropine
Hydroquinone
Ichthyol Substitute
Kelene
Lemon Oil
Lithia Carbonate
Lecithin
Menthol
Mercurials
Methylene Blue Medicinal
Methyl Salicylate
Metol
Paraldehyde
Peppermint Oil
Pepsine
Peptone
Phenacetin
Phenazone
Phenolphthalein
Pyrogallic Acid
Potash Sulpho-Guaiacolate
Quinidine and Salts
Quinine and Salts
Quinine Ethyl Carbonate
Quinoidine
Resorcin
Saccharin
Salicylic Acid
Salicylate of Soda
Salol
Soda Benzoate
Soda Hyposulphite
Soda Sulphite Anhydrous
Sugar of Milk
Tannic Acid Leviss
Tannin Albuminate
Tartaric Acid
Terpineol
Terpine Hydrate
Theobromine
Thymol Crystals
Vanillin









R. W. Greeff & Co.

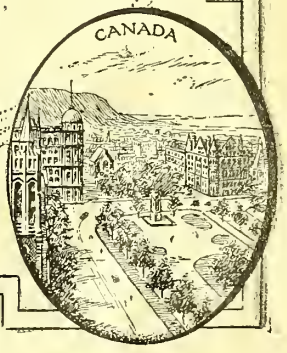
THAMES HOUSE, QUEEN STREET PLACE,
LONDON, E.C.4.

MANCHESTER BRANCH
Lloyds Bank Buildings,
King Street.

NEW YORK AGENTS
R. W. Greeff & Co., Inc.,
73 Front Street.







SPECIAL NOTICE TO PHARMACISTS

From OCTOBER 1st a clear 25% profit on sales is now assured to Retailers of

KAY'S Compound Essence of Linseed

"LINSEED COMPOUND" (Trade Mark)

And their other MEDICINAL PREPARATIONS.

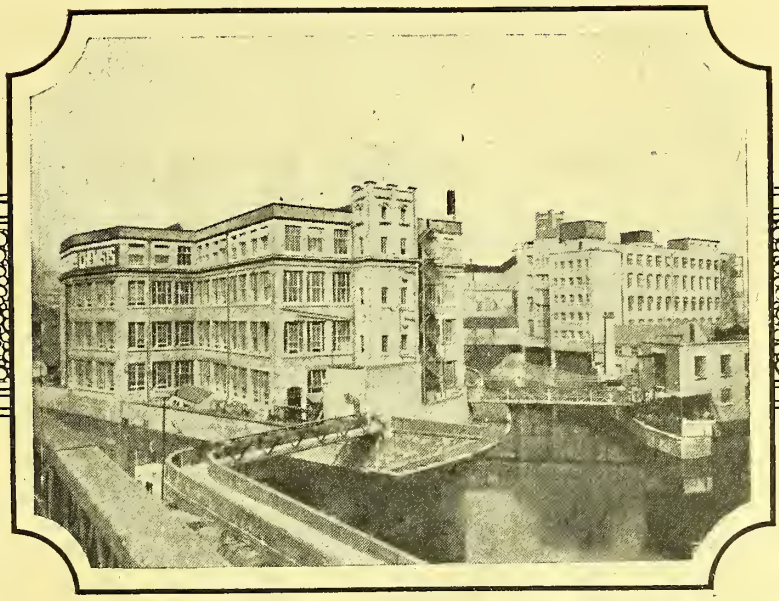
By arrangement with the P.A.T.A., the revised prices as under will take effect as from 1st October, 1920.

Old Retail Price.	New Retail Price (P.A.T.A.)	Wholesale Price (in Great Britain) (P.A.T.A.)
11½d.	1/3	11·3
1/3	2/-	18·0
3/-	4/6	40·6
5/-	7/6	67·6
12/-	18/-	162·0

Revised price labels to attach to existing stock will be forwarded on stating approximate quantity of each size required.

N.B.—Every bottle of Kay's Linseed Compound is manufactured under the supervision of, and is distributed to the public by Qualified Pharmacists. In handling Kay's Linseed Compound you are selling a Household Remedy of Sixty Years' reputation!

KAY BROTHERS, Limited, STOCKPORT



ALKALOIDS.

CANTHARIDIN.
ATROPINE AND SALTS.
HOMATROPINE AND SALTS.
DIGITALIN.

HYPNOTICS.

ADALIN.
BUTYL CHLORAL HYDRATE.
CHLORALFORMAMIDE.

ANTIPYRETICS.

ASPIRIN.
ACETANILIDE.
METHYL ACETANILIDE.

ANTISEPTICS.

ACRIFLAVINE.
PROFLAVINE.
CHLORAMINE.
DICHLORAMINE.
HALAZONE.
CHLORCOSANE.
CHINOSOL.
RESORCIN MONO-ACETATE.
CHLOROPHYLL (Oil and water sol.)

ANAESTHETICS.

B. EUCAINE HYDROCHLORIDE.
B. EUCAINE LACTATE.

SACCHARIN DERIVATIVES.

SACCHARIN (soluble).
SACCHARIN (insoluble).
P. TOLUENE SULPHON CHLORIDE.
P. TOLUENE SULPHONAMIDE.

GLYCEROPHOSPHATES.

GLYCEROPHOSPHATES OF
SODIUM, CALCIUM, &c.

PERFUMES.

B. NAPHTHYL METHYL ETHER.
B. NAPHTHYL ETHYL ETHER.
P. CRESOL METHYL ETHER.
GERANIOL.
IONONE.
BENZYL ACETATE.
EUGENOL.
METHYL ACETOPHENONE.

PRICES ON APPLICATION.

BOOTS PURE DRUG CO. LTD.,

MANUFACTURING CHEMISTS AND
MAKERS OF FINE CHEMICALS,

STATION STREET —— NOTTINGHAM.

TELEPHONE : 3160 *TELEGRAMS : "DRUG NOTTINGHAM."*

SIR JESSE BOOT, CHAIRMAN.

PINE TABLETS

SEE TO YOUR STOCK

We are Actual Makers, and can supply in Bulk or Packed

SAMPLES AND PRICES ON APPLICATION.

C. R. Harker, Stagg & Morgan, Ltd.

DEVON WHARF & BELL WHARF,
EMMOTT ST., MILE END,
LONDON, E. 1.

Maw's Page



October 2, 1920. No. 468.

The Pink of Perfection—'Parex' Manicure Methods

The familiar pink colour scheme of "Parex" Manicure Methods—the pink of perfection—is to-day an outstanding feature in the window displays of all progressive pharmacies.

The discerning pharmacist knows that a display of "Parex" Manicure Methods produces profitable business, not merely initial sales, but a steady continuous stream of repeat orders.

He realises also the fact that "Parex" Manicure Methods are securing the business of manicure requisites for the pharmacist only. That they are the property of the bona-fide pharmacist, and are not supplied to others.

There is another important reason. "Parex" Manicure Methods offer unprecedented opportunities for Christmas business. They provide a line of Christmas Gifts having the advantage of originality, personality and taste combined with comparatively low cost.

Still more important, by pushing "Parex" Manicure Methods at Christmas the pharmacist lays the foundation for increased business throughout the whole year, because every "Parex" quality makes the user a permanent customer. Therefore the pharmacist of foresight is familiarising the public through his window with "Parex" Manicure Methods in preparation for big business at Christmas and after.

The demand for "Parex" Manicure Methods is enormous. In order to avoid disappointment send us your order to-day.

Telephone: "City 7" (Private Branch Exchange).

S. Maw, Son & Sons, Ltd., 7/12 Aldersgate St., London, E.C.1.

Telegrams: "Eleven Cent, London."

Virolax

(*Registered Trade Mark*)

THE NEW LAXATIVE FOOD

Extensive Advertising Campaign

AFTER prolonged and widespread clinical trial, both in Hospitals and by Medical Practitioners, we have decided to bring Virolax prominently before the Medical Profession.

We are addressing next week all the Medical Men in Great Britain and Ireland, and we propose to follow this up with free samples for trial.

This preliminary work will be followed up with large double column spaces in all the leading papers throughout the Country, commencing in October and continuing regularly throughout the next twelve months.

From the personal recommendation of those who have tried it, there is now a substantial demand for this preparation, and you have probably already received enquiries for it.

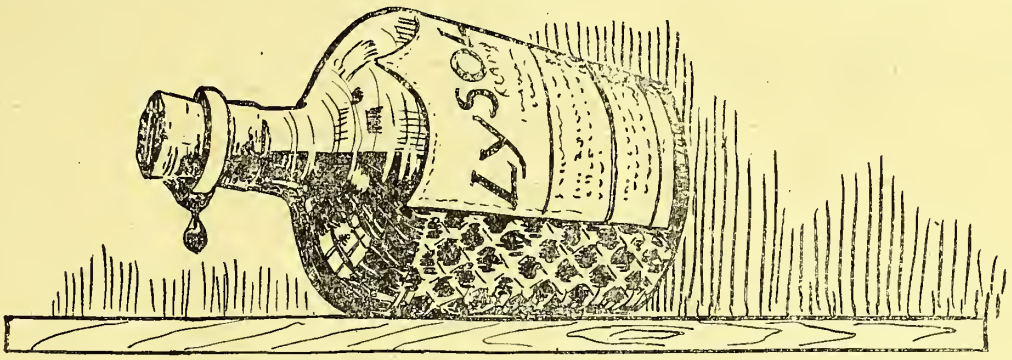
We anticipate, however, that as a result of the extensive campaign we are now entering upon, there will be an immediate and large demand, and we feel we may with confidence recommend you to requisition stocks at once, so that you may be in a position to meet all early enquiries.

Virolax is packed in 4 oz. and 16 oz. tins at 1/- and 2/8, and is supplied to the Trade in 1 dozen boxes at 10/- and 27/- per dozen. Terms: £3 orders carriage paid, less 5%. On orders over £5 an extra discount of 5% is allowed on condition that window display is made. These terms will also apply to combined orders for Virol and Virolax to the value of £3 and £5.

Show Cards and Advertising Material on Application

Virol, Ltd., 148-166, Old Street, London, E.C.1.

September, 1920.



Have You Tried the Effectiveness of "Lysolid"?

A solid Lysol, possessing all the advantages of the liquid form with none of its disadvantages.

LYSOLID is packed in handy sections and enclosed in tin container. One section dissolved in a pint of water makes a 3% solution.

LYSOLID may be made to any strength by dividing or increasing the sections. No need to measure, and no guesswork.

LYSOLID.

THE SOLID LYSOL

PROV. PAT. M.B. Embe No. 16799, .

is absolutely new. It is worth investigating by everyone who makes regular use of this splendid disinfectant.

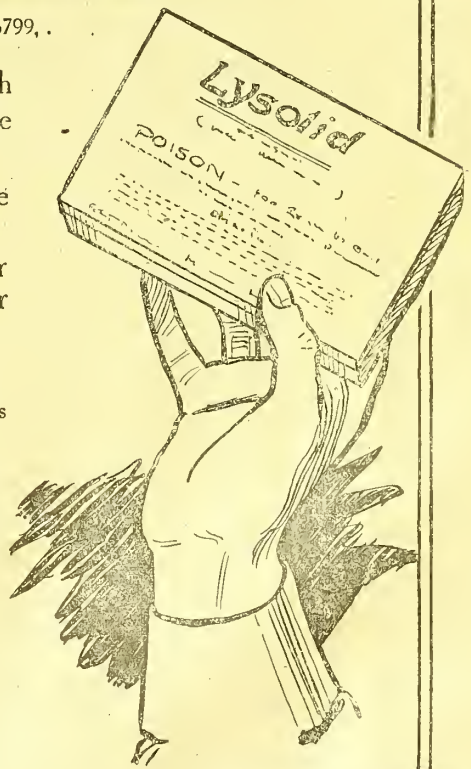
It's a new thing—meets a big need, and the demand is sure to be tremendous.

Thousands of eager customers will ask for Lysolid—thousands that have been wishing for this preparation.

Are you ready to supply it?

Every retailer should be acquainted with Lysolid—its value—its safety—and its margin of profit.

Write to-day for samples, post free, and particulars of how it means a bigger net profit on every sale.





PATTINSON & MACKIE
Ltd.
Albion House,
59 NEW OXFORD ST.,
LONDON, W.C. 1.

OINTMENTS

SANGERS SATIN SIEVED

Being primarily one of the main sources of supply for Proprietary Medicines and Chemists' Sundries, it is not sufficiently widely known that we are manufacturers of Ointments, the quality of which has never yet been surpassed.

We are peculiarly fitted to turn out splendidly smooth Ointments, as our equipment for the production of Face Creams, Ointments, etc., includes the very finest machinery yet invented.

Our mills for Ointments are lined throughout and are highly glazed, ensuring a perfect finish and a complete incorporation of the medicaments.

Only ingredients of pure B.P. standard are used, the resulting Ointments being perfect pharmaceutical products.

Ung. Acid Boric 1914
,, ,, ,, 1885
,, ,, Carbolic
,, Gallæ

Ung. Paraff. Alb.
,, Resinæ
,, Sulphuris
,, Zinci

Ung. Hydrarg. Ammon.

For prices see current Drug List, or write to

Sangers
258 EUSTON Rd
LONDON, N.W.1.

AYRTON'S WEEKLY PAGE 15

Cremor Rusci Co.
A.S. & Co.

There is a tremendous demand for various patent antiseptic skin ointments many of which bear very little profit; in a good many occasions the chemist can supply a proprietary line which will give a larger profit.

Cremor Rusci Co. A. S. & Co. meets the demand for an efficient antiseptic ointment, and has been used with great success in the treatment of Sores, Cuts, Burns, Eczema, Piles, etc.

It is prepared with our celebrated Cremor base with which is incorporated the usual antiseptics and absorbents used in this class of ointment.

PRICES ARE:

	1	4	7	14 lbs.
Per lb. - -	3/4	3/3	3/2	3/1

May we send you a sample?

The sign of Quality

AYRTON, SAUNDERS & CO. LTD.
Manufacturing Chemists
LIVERPOOL

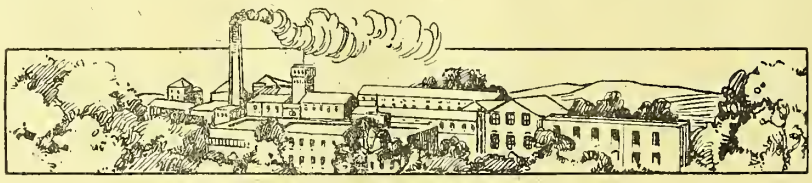
PASTILLE
POINTS—4.

The MANUFACTURE of EMULSION ANTISEPTIC THROAT PASTILLES (KERFOOT)

EMULSION Throat Pastilles (Kerfoot) are made under ideal conditions of cleanliness and analytical control, in the pure air of our Garden Laboratories at Bardsley Vale.

Automatic machinery of our own invention is used in the manufacture of Emulsion Throat Pastilles (Kerfoot). This has practically eliminated human handling throughout the entire process of manufacture.

Emulsion Throat Pastilles (Kerfoot) contain Menthol, Oil of Eucalyptus, Terebene, Norwegian Pine Oil, Thymol, Licorice, and Gum Arabic. The Formula has stood the test for many years of public use, and the demand to-day is greater than ever. Narcotics, it will be observed, are not used in the preparation of Emulsion Throat Pastilles (Kerfoot). :: :: Order now, price 3/3 per lb.



THOMAS KERFOOT & Co LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

A Smart Perfume.



JOCKEY CLUB "DISTOL"

SIMPLE in the making, requiring merely the addition of S.V.R. and water, without filtering, tinting, blending or distilling—ready for instant use, yet mellowing with age—immensely profitable and satisfactory to retail—these are but a few of the reasons why the busy Pharmacist would do well to prepare his own "Jockey Club" and other perfumes from "Distol" Ottos.

An ounce of any "Distol" costs 7/6 only and makes 80 ozs. of choice perfume.

There are 34 varieties of "Distol" Ottos, uniform in price and dilution, and samples of perfumes made from any six of them, together with a copy of the current issue of the "Distol" review "Profitable Perfumery" will be sent free on receipt of trade card.

A revised price list of Kerfoot products is issued every month. A copy will be posted regularly to any Pharmacist on request.

THOMAS KERFOOT & Co LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

HOT STUFF!

CAPSICUM TISSUE

IN SMALL CARTONS.

Per **6/6** dozen. Your name on labels for order of 6 dozen

or in pound packets, per **5/-** lb.

Hot Water BOTTLE COVERS

Assorted Colours — Ripple Cloth.

4 STOCK SIZES. Others made to Order.

10×6 ...	**12/6** dozen.	10×8 ...	**15/-** dozen
12×8 ...	**17/3** „	12×10 ...	**20/-** „

We can also supply Hot Water Bottles, Ordinary Stopper or "Ronoleke." Prices on application.

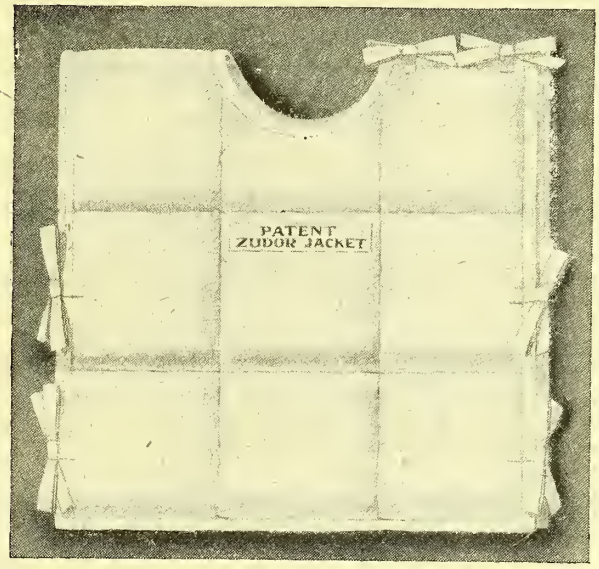
London Office & Warehouse - 151-7 Goswell Road, E.C. 1.

ROBERT BAILEY & SON, Ltd.,
SURGICAL DRESSING MANUFACTURERS,
MARRIOTT STREET MILLS, STOCKPORT.
CABLES UNDISPUTED, STOCKPORT. CODE A.B.C 5TH EDITION.

C&Co Ltd TRADE MARK

"ZUDOR" JACKETS

For Chest Colds, Bronchitis and Pneumonia, or as a Chest-Protector recommend—



In Six Sizes and Two Qualities.

(Any special size made to Order.)

No.	Across Chest	Shoulder to waist.	Cotton Wool Per doz.	Retail each.	Lambs Wool Per doz.	Retail each.
1.	8 in.	6 in.	10/-	1/3	16/-	2/-
2.	10 in.	8 in.	15/-	2/-	24/-	3/-
3.	12 in.	10 in.	19/-	2/6	30/-	3/9
4.	15 in.	12 in.	26/6	3/4	36/-	4/6
5.	19 in.	13 in.	32/6	4/2	42/-	5/3
6.	21 in.	15 in.	40/-	5/-	45/-	6/9

Showcards and Advertising Matter supplied with each Order.

CUXSON, GERRARD & Co., Ltd.

OLDBURY, near BIRMINGHAM.

N. V. Chemische Fabriek "Naarden"

Bussum, Holland.

Manufacturers of Aromatic Chemicals, Flower Oils, Essential Oils, Pharmaceutical Products and Chemicals.

ACETIC ALDEHYDE ABSOLUTE.

Almond Oil, S.P.A.	Dill Oil	Oil of Mustard, Synthetic
Benzaldehyde, F.F.C.	Eugenol	Art. Pine Needle Oil (Siberian)
Camphor Oil, Essential	Eucalyptol	Peru Balsam, B.P.
Cinnamon Oil, B.P.	Eucalyptus Oil, B.P.	Peppermint Oil, B.P.
Coriander Oil	Fennel Oil, Sweet	Savin Oil
Clove Oil, B.P.	Juniperberry Oil	Styrax
Cumin Oil	Methyl Salicylate	Valerian Oil, &c.

"SOLVENT," a fixative, solvent & diluent for Perfumers.

APPLY TO

GERALD BROMAGE & CO., 9-10 Foster Lane, E.C. 2.

Telephone: City 4719.

ESSENTIAL OILS

JUNIPERBERRY, ROSEMARY, BITTER ALMOND, SAGE, THYME, etc.

HORACE BATTIN & CO., LTD.

2 Fenchurch Avenue, LONDON, E.C. 3.

Telephone: Avenue 4570. *Telegrams:* "Horatco, Fen, London."

Note New Address:

WILLIAMSON Bros.
16 Southwark St.,
LONDON, S.E. 1.

Phone: Hop 3419. *Telegrams:* "Verdurous, Borob, London."

ROURE BERTRAND FILS, GRASSE. *Established 1820.*

LAVENDER (French), SPIKE LAVENDER (French and Spanish)

NEROLI, GERANIUM (African and Bourbon), SANDALWOOD, PETITGRAIN (French and American), VETIVER (Java and Reunion), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.

ORRIS CONCRETE and LIQUID.

ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES.

We have Stocks in London of the most important Essential Oils and Perfumery Products.

JUSTIN DUPONT, Argenteuil (S. & O.), France

Makers of SYNTHETIC PERFUMES

and some of the finest original odours extant, for Sachets, &c.

SOLE AGENTS FOR THE UNITED KINGDOM:

STEPHENS BROTHERS & CO., 2, 5 & 6 Bury Court, St. Mary Axe, London, E.C. 3.

Wholesale Houses only supplied.

"HEADQUARTERS"

SPANISH ESSENTIAL OILS

LARGE STOCKS



RIGHT PRICES

EVERY KIND.
PRICE LIST GLADLY SENT ON APPLICATION.

LONABARC TRADING CO., LTD.

5 FINSBURY SQUARE, LONDON, E.C. 2.

Telegrams : "Lonabarc, Finsquare, London." Telephone : Clerkenwell 2096.

AMERICAN

ESSENTIAL OILS

"MOHAWK" BRAND

OIL PEPPERMINT (Natural)

OIL CEDARWOOD
OIL CEDARLEAF
OIL HEMLOCK
OIL BIRCH

Heliotropine Crystals C.P.
Vanillin C.P.
Coumarin C.P.
Oil Wormseed, American.
Oil Wintergreen Leaf U.S.P.

MAGNUS, MABEE & REYNARD, Inc.

Essential Oils, Chemicals and Drugs,
NEW YORK - - U.S.A.
Cables—"MAGLAUR."

"ARETHUSA"

Brand

ESSENTIAL OILS

LEMON, ORANGE (Sweet & Bitter)
BERGAMOT :: MANDARIN

Guaranteed absolutely pure

The Brand that covers only Finest Quality Oils.

Manufactured by the old-established house of FRATELLI JUNG (Est. 1867) Palermo, Messina, Catania.

ASK YOUR USUAL SUPPLIERS
to deliver you **"Arethusa"** Essential Oils,
or apply to the London Agents :

Gerald McDonald & Co.,

9 BOTOLPH LANE - E.C.3.

Telegrams : "Spicebush, Bilgate, London."
Telephone : Avenue 206 (3 lines, 7 extensions).

TERPENELESS OILS
BRITISH MADE

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the world.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)
Bay
Bergamot
Caraway
Cassia
Cinnamon
Clove
Dill
Geranium
Ginger
Juniperberry
Lavender
Lemon
Limes
Mandarin
Nutmeg
Orange
Peppermint
Petitgrain
Rosemary

CINNAMIC ALDEHYDE
GERANIOL
CITRAL
EUCALYPTOL

SICILIAN
LEMON - BERGAMOT
ORANGE - MANDARINE.
SPINELLI
The Oils that have a Long Reputation for Quality.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that the "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

HOLLANDS DISTILLERY LTD.
Lavington Street, Southwark, LONDON, S.E.1.

A B C Code, 5th Edition.
Western Union.

Telegrams: "LANDSLOH LONDON."
Telephone: Hop 898.

AMERICAN AGENTS—O. A. BROWN CO. INC., 99-101 Beekman Street, NEW YORK.
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, TORONTO.

A. BOURJOIS & Cie, Ltd.
66 CARTER LANE - LONDON, E.C.4.

Please note that the prices of

Poudre de Riz de Java (Bourjois)

are as under:

2/- size. No. 45		1/3 size. No. 495	
1 doz. -	16/- per doz.	1 doz. -	11/- per doz.
6 „ -	15/9 „	6 „ -	10/9 „ „
12 „ -	15/6 „	12 „ -	10/6 „ „

The P.A.T.A prices for Java Powder have been increased to 2/- and 1/3 per box.

May 1, 1920. *No. 495 supplied in the United Kingdom only.*

PERFUMERY *of* DISTINCTION

FROM THE FAMOUS FRENCH HOUSE

PARFUMERIE D'ORSAY

Chemists who are looking for high-class goods which they can recommend with confidence should take note of the following:—

Finolette *(10/6),* ***Chevalier D'Orsay*** *(11/7)*

Chypre D'Orsay *(8/3),* ***Rose D'Orsay*** *(9/2)*

and ***Poudre D'Or*** *(2/-)*

the well-known Parisian Face Powder in various perfumes.

Large stocks are kept in London and can be delivered at once.

J. NASSAN & CO., 129 WOOL EXCHANGE, BASINGHALL STREET, LONDON, E.C. 2.

Phone: Central 8799.

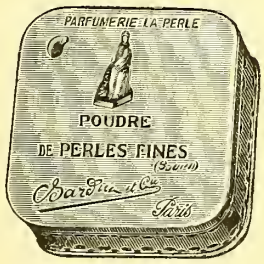
PRODUCTS OF

Parfumerie LA PERLE, PARIS.

Cold Cream Rose

Wholesale 30/- per doz.
Retail 4/6.





Poudre de Perles Fines.

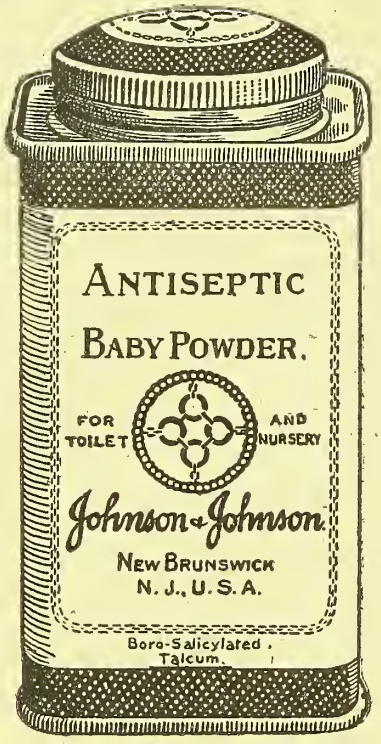
Wholesale 30/- per doz. Retail 4/6

Wholesale Houses already stock them, and sales have greatly increased. Many customers will not use any other powder than Bardin's.—It will pay you to stock them.

SOLE AGENTS: **J. NASSAN & CO.,** 129 WOOL EXCHANGE, BASINGHALL ST., LONDON, E.C. 2.

Phone: Central 8799.

SOLD THE WORLD OVER.



Antiseptic TOILET & BABY POWDER

JOHNSON & JOHNSON
British - Manufacture.

Made from the Best Talcums and Delicately Perfumed.

Bonus given for order of 2 gross and window display.

For particulars apply to—

JOHN TIMPSON & Co., Ltd.
104 Golden Lane - - E.C. 1.

SALES
ALWAYS INCREASING.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH.
LASTING & FRAGRANT.

PERFUME BRICK

FOR LINEN CUPBOARD AND WARDROBE.
On the P.A.T.A. *Retail Price* ***6d.***

WANDA TOILET PUMMICE.
WANDA NAIL POLISH.
WANDA ONE-DROP PERFUME.

Of the Makers:
WILLIS, LOW & DRUIFF, LTD.,
33 Percy St., London, W. 1.
AND ALL WHOLESALERS.

"Newberys"
FRANCIS NEWBERY & SONS Ltd

You will profit by stocking our Packed Goods, and your customers will obtain satisfaction.

Castor Oil	Brilliantines
Syrup of Figs	Hair Cream
Medicinal Paraffin	Dental Cream
Chemical Food	Smelling Salts

Bath Salts

All these lines attractively packed.

CHARTERHOUSE SQUARE, LONDON, E.C. 1.

THESE FIGURES SPEAK!

Outlay	- -	£2	4 0
Returns	- -	5	5 0
Profit		**£3**	**1 0**

NORA

Complexion Powder

NORA

A touch of beauty

ARECO LTD
London-Paris

Complexion Powder

Poudre de Riz



Let us help you to secure the good business in fine Toilet and Complexion Powders.

We make you the following offer :—

On a half-gross parcel of "NORA" Complexion Powder, at **9/-** dozen, to retail at **1/3** per box, we will pay for

WINDOW DISPLAY SPACE

for a period of one month, 10/-, and supply a sales promotion bonus of 2 doz. to the gross. 5 gross is the maximum order executed on these terms.

We will also send you attractive selling showcards that compel business.

One of the Areco Series

"NORA" Complexion Powder is a fine, adherent, soft, dense powder of great purity and fragrance, and the colours are fully representative. The assortment (six in number) is as follows :—

WHITE. PINK SUNBURN ROSÉ. CREAM FLESH.

London 11, Southampton Row, W.C. — **Areco Ltd** — *Paris* 12e Rue Tailbout.



The

HENNA CULT

of Hair Beauty, based on the famous

EVAN-WILLIAMS ORIGINAL

HENNA SHAMPOO

daily extends its boundaries, and is now a subject for popular journalism.

It pays to sell this famous line.

You will find full details of terms and prices in the current issue of "THE SHAMPOO SALESMAN," a copy of which is gladly sent on request.

Be sure to order

THE EVAN WILLIAMS ORIGINAL Henna Shampoo

Wholesale only:
THE EVAN-WILLIAMS CO., LTD.
18 Ogle Street - LONDON, W. 1.

SELLERS



ANZORA CREAM for greasy scalps, and ANZORA VIOLA for dry scalps, are splendid sellers, and offer you a good margin of profit. They are the two finest preparations in the world for men's hair. Order a supply to-day. Obtainable from all wholesalers.

TRADE TERMS:
12/- per doz. retailed at 18/-
20/- „ „ „ „ 30/-



ANZORA BETA-NAPHTHOL SOAP (powdered)
an efficient and economical Shampoo.
ORDER a small quantity to begin with
12/- per dozen Pots retailed at 18/-

Attractive Showcards sent post free on request

ANZORA

Masters the Hair

Anzora Perfumery Co. Ltd., Willesden Lane, London, N.W.6

"Jackel's Cream"

(without Grease)
for THE HAIR
Sold everywhere

Established 1883.



"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Prices for Wholesale and Export Houses on application.

Jackel et Cie (of Paris) Ltd.
Sauchiehall Street
GLASGOW

CRYSTALLISED
1/9 CREAM 2/6

Trade Mark attached to each bottle.

The offer made below is extended to orders received up to Tuesday, October 5.

Last year we made a special bonus offer of a 14-ct. gold-nibbed Fountain Pen to Chemists who ordered 1 gross Raymet Henna and Quinine Shampoos at 20/-.

⊙ ⊙ ⊙

In response to numerous inquiries asking whether we intend to repeat the offer, we have decided to do so.

⊙ ⊙ ⊙

With all orders for one gross 3d. *(P.A.T.A.)* Raymet Shampoos received up to first post Tuesday, Oct. 3, we will send one of these pens—equal to those usually sold at 10/6—provided one of the show outers is shown in the window for at least two weeks.

⊙ ⊙ ⊙

Raymet Shampoos are worthy of the premier place in your window for the following reasons—quick selling—sure repeats—attractively packed—on the *P.A.T.A.*—extremely profitable and a meritable preparation that will give entire satisfaction to your customers.

⊙ ⊙ ⊙

Price 20/- per gross (less 5% for cash) retailing at 3d. each—your profit 17/- on each gross or 45% on turnover.

⊙ ⊙ ⊙

Orders executed in strict rotation. Only one pen can be sent to any one address.

We have taken the following comments from the hundreds of cards received acknowledging receipt of the Fountain Pen.

"The Shampoos are going well, and if they give as much satisfaction to customers as the pen does to me I shall be re-ordering before long."

"The pen is an excellent bonus."

"Shampoos and pen to hand—I am very pleased with both."

"The pen is perfectly satisfactory."

"Best pen I have had for years."

"Pen just received, it suits me nicely and is a good one."

"Fountain Pen received in good order—I am very pleased with it."

"Fountain Pen received all right—it seems a very good one."

"Fountain Pen duly received—I think it very satisfactory."

RAYMET & CO., LTD.

507-509 HARROW ROAD, LONDON, W. 10.

The Perfect Paste with the Pleasant Flavour.

Anglodol

Dental Paste

A Perfect Dentifrice.
Pleasant to the taste.
Profitable to the Retailer.

Retail Price, 7½d. and 1/3.

Window display terms on application.

ANGLODOL, LTD., BERKHAMSTED.

Telephone: Berkhamsted 138. *Cables and Telegrams:* "Anglodol Berkhamsted."

ARE YOU STOCKING

TRADE PYREA MARK

3 Good Sellers

"Pyrea" Astringent Lotion ...	5/-
"Pyrea" Tooth Cream (Large)...	1/6
"Pyrea" ,, Powder ...	1/6

DISTRICT AGENCIES BEING APPOINTED.

GENEROUS TERMS.

"PYREA" Co., 31 Gt. St. Andrew St.
Telephone: 4087 Gerrard, LONDON, W.C. 2.

"Comet" Vacuum FLASKS.

Every flask tested at the works before dispatch.

Mayfair Chemical Co.,
11 Queen Victoria Street,
LONDON, E.C.4.

Tel. No.: City 3373.
Tel. Add.: "Agenda, Cannon, London."

IMPORTANT NOTICE.

Enolin

The Retail Price of Enolin Tooth Paste & Powder now is

PASTE - 1/6 & 10d. per tube.
POWDER 1/3 & 7½d. per tin.

YOUR PROFIT INCREASED

Special Cash Allowance for Window Displays.

Write for new terms and particulars of this largely advertised proprietary to "Sales" Department.

A. & E. CARRERAS, Ltd., 207 King St., Hammersmith, W.6

Sole Export Agents :

PATTINSON & MACKIE, Ltd., Albion House, 59 New Oxford St., London, W.C.1

To Satisfy your Customers Is to Increase your Business

LINARIS TOILET PREPARATIONS

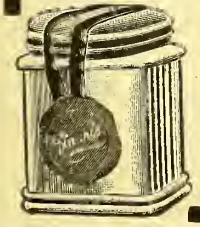
(1) Give absolute satisfaction–Guaranteed
(2) Are prepared from the finest Drugs obtainable.
(3) Show splendid profits to the Retailer.
(4) Invariably bring repeat orders.
(5) Are beautifully packed in Opal-topped Jars and large golden boxes tied with purple ribbon. Make a splendid counter show.

LINARIS Vanishing Cream
LINARIS Bath Powder
LINARIS Henna Shampoo Powder
LINARIS Camomile Shampoo Powder
LINARIS Massage Cream
LINARIS Tonic Cream
LINARIS Beauty Cream
LINARIS Face Powders

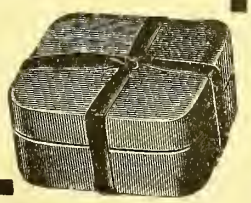
Profit of over **33⅓%**

Send direct to

LINARIS TOILET PREPARATIONS (Dept. X)
31 Westbourne Grove, London, W.2



Carriage paid on all orders over £5.



EASTERN TRADING Co. Ltd.

St. Giles, Salisbury.

Importers of Face or Powdered Paper.

Stocked in Rouge, White, Pink and Natural.
Cases of 50 reams. 96 sheets per ream.
Rouge, 11/-, other colours 8/- per ream, *ex* store London.

The Dye with a Reputation for reliability.

ROYAL COURT HAIR DYE

SEVEN SHADES.

1/6 size 12/- doz. 2/6 size 18/- doz. P.A.T.A.

The only dye giving a natural gloss to the hair.

From all wholesalers or direct

J. KNOX-WALKER & Co., Ltd., 422 Kingsland Rd., London E. 8.

PERFUMERS ! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmanship and prompt delivery. Ingredients supplied if desired at lowest market prices. Write, stating requirements.

MARTIN & CO., 71 City Road, Finsbury, London, E.C.1.

PUFFS of ALL KINDS in DOWN and WOOL.



SOLID FACE POWDERS
COMPLETE WITH PUFFS.
Inquires invited by makers.
F. SCHUTZE & CO., Ltd.,
BLACK BULL WORKS,
Caledonian Market, London, N.7.



T.J.84.

In the margin are reduced reproductions of a few advertisements appearing in the most suitable newspapers and magazines.

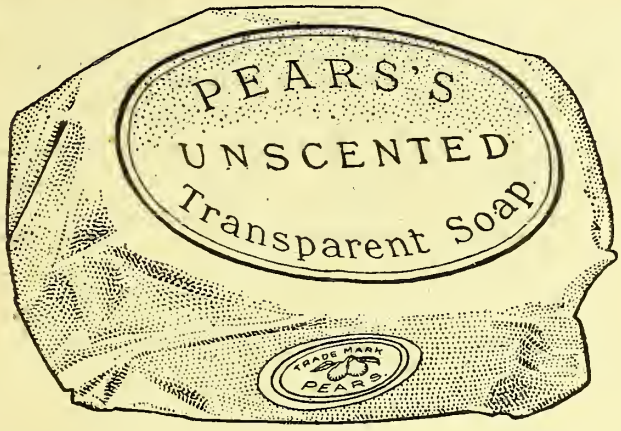
For you the question is

Am I getting my full share of the increased demand?

Unless you are making bold counter and window displays, the answer is probably in the negative. People are more apt to buy an advertised article when and where they see it displayed. The window show acts as a reminder at precisely the right time—that is, when the customer is just outside your pharmacy.

Euthymol
TOOTH PASTE

Kills dental decay germs within 30 seconds.



The more Pears' Soap you sell, the more the public will buy — because it's good.

Pears

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price Retail.
PILENTA SOAP - A complexion soap.	10 -	1 -
PROLACTUM - - For the lips.	10/-	1/-
PARSIDIUM JELLY For wrinkles.	10 -	1/-
ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM - - A hair tonic.	22/6	2/6
CLEMINITE - - For a face lotion.	22/6	2/6
COLLIANDUM - - For a face tint.	22/6	2/6
PERGOL - - - A deodorant.	22/6	2/6
STALLAX - - - For a shampoo.	22/6	2/6
JETTALINE - - For clearing the skin.	31/6	3/6
PHEMINOL - - A depilatory.	36/-	4/-
MENNALINE - - For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL - - - For oily complexions and blackheads	36/-	4/-
BARSYDE - - Dandruff eradicator.	22/6	2/6
TAMMALITE - - For grey or faded hair	22/6	2/6
LIQUID PERGOL - To check excessive perspiration locally.	31/6	3/6
BICROLIUM - - For whitening the hands.	22/6	2/6
HARAPOSA - - Nut oil shampoo.	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:
ALL WHOLESALERS, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg)

INDIA:
KEMP & CO., Ltd. (Bombay)
THE INTERNATIONAL TRADING CO., Princess Street (Bombay)
R. MACLURE (Madras)
SMITH, STANISTREET & CO. (Calcutta)
MEHTA BROS. (Calcutta)
JAMNADAS BROS. (Bombay)

NEW ZEALAND:
SEARLAND & CO., Ltd. (Auckland & Wellington)

SOUTH AMERICA:
DEARBORN, Ltd., Calle Suipa 264, Buenos Aires.

Taxed as a Medicine

Because of its Medicinal properties every bottle of

DENTIFRICE

LACOSTE

has been stamped under the Medicine Stamp Act—without increase in Price to the Retailer.

This delightfully refreshing and antiseptic liquid dentifrice gives a pearly whiteness to the teeth and is highly recommended by many Doctors and Dentists as the best medium for the prevention, treatment and cure of *PYORRHŒA.*

Retail 3/- per Bottle

(including 6d. Government Stamp).

Representing an actual reduction in price.

LIBERAL DISCOUNT TO THE TRADE.

ATTRACTIVE SHOWCARDS SUPPLIED.

Wholesale and Export—

LACOSTE et CIE,

123a Borough High Street, London, S.E.1.

Telephone: Hop 1789.

KEENOLIA
Hair Cream.

MADE UP IN TWO SIZES:

4 oz. retails at 1/3
8 oz. „ „ 2/-

Attractive Showcards supplied GRATIS.

From all Wholesalers, or direct from Manufacturers.

The . .
"CASSON BRAND"
COLD CREAM
LANOLINE
LAVENDER ICE



THE
CASSON CHEMICAL CO.
LIMITED,

44a WESTBOURNE GROVE, LONDON, W.2.

Telephones: Park 2984 & 3568.

ROBARTES' send YOU Customers

WE are Increasing Sales and Sending Customers to Your Shop by the medium of our New Immense Advertising Campaign, having booked space, commencing from now onward, in over 40 large and influential papers, including the DAILY MIRROR, EVENING NEWS, WEEKLY DISPATCH, LONDON MAIL, TATLER, PEARSON'S WEEKLY, PICTURE SHOW, HOME CHAT, DAILY SKETCH, EVE, VOGUE, HOME NOTES, etc.



TRIAL SIZE

P.A.T.A. 4½d. ... @ **36/-** per gross.
Packed in quarter-gross display boxes.

We are making a special feature of our "DIADEM" WAX FOR THE COMPLEXION, and in order to encourage your co-operation we have arranged to allow you 70% profit on the investment.
Until the end of the year, for every two dozen "Diadem" Wax ordered we are giving a Free Bonus of one dozen Trial Size, and as shown below, your profit will amount to 70% on cost.

P.A.T.A.			
2 dozen 2/6 "Diadem" Wax @ 20/-	£2 0 0	Selling price ..	£3 0 0
P.A.T.A.			
1 dozen 4½d. @ 3/- FREE		.. .. ..	4 6
Less 5% cash 7 days ..	2 0		
Cost ..	£1 18 0	Sum realised ..	£3 4 6

The above shows you a profit of over **70%**

¶ The Sales resulting from a display of "Diadem" Wax in your window will astonish you.

DECOLTENE
The liquid hair remover

Robartes' Renowned Depilatory, well advertised, and in universal demand.

PRICE
30/- PER DOZEN
P.A.T.A. **3/9**

XMAS TRADE PERFUMES.

We will send particulars on request of attractive perfumes at various prices.

SPECIAL NON-PROPRIETARY LINE.

1-oz. bottles, as illustrated. A good perfume, at

PER DOZEN **10/6**





WRITE FOR NEW ILLUSTRATED PRICE LIST, giving details of all ROBARTES' other attractive and well-established lines. Showcards and counter matter FREE on request.

ROBARTES, LTD. DYER'S BUILDINGS Holborn, LONDON, E.C.1

PURE DOUBLE-DISTILLED

GLYCERIN

Was first Distilled in this Country by PRICE'S in 1855

PRICE'S GLYCERIN

:: Foremost ever since ::

In convenient sizes and in bulk

Quotations from :-

PRICE'S PATENT CANDLE COMPANY LIMITED

BATTERSEA . LONDON . S.W.11.

PRICE'S

REGINA

Shaving Stick



ORDER

"REGINA"

AND

HELP THE EXCHANGE

Samples and Quotations from

PRICE'S

Battersea, London,

S.W. 11.

By Royal Appointment to H.M. King George V.

GO TO

COOK'S

LONDON

FOR

PURE TOILET SOAPS

HAVE YOU RECEIVED A COPY OF OUR LIST OF

SOAPS & PERFUMES for XMAS Trade?

IF NOT, KINDLY SEND US A CARD WITH YOUR NAME AND ADDRESS.

Please be early in placing your Orders for these Attractive Lines.



Featheredge
TRADE MARK

RUBBER SPONGES



Are durable and do not harden. When used with soap, they make a delightful lather.

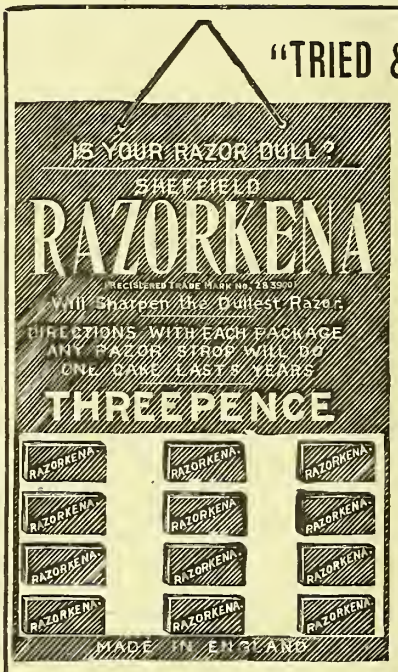
Obtainable of all Wholesale Druggists' Sundries Houses

MARKT & CO., LONDON, LTD.

American Merchants

—— SOLE IMPORTERS ——

98-100 CLERKENWELL ROAD,
LONDON, E.C. 1.



THE
"TRIED & PROVED" Razor Paste

Sells at Sight.

Stocked by **SANGERS,** Martin Phillips & Co., Ltd., and leading Warehousemen.

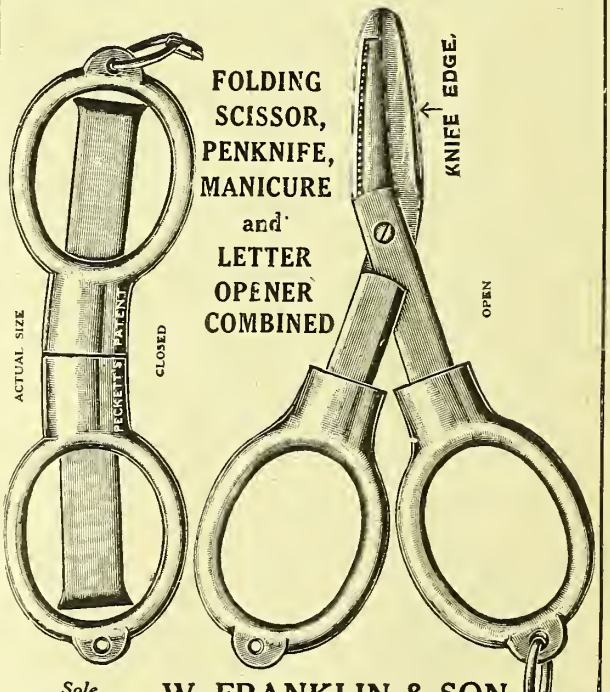
Send P.O. 6/6 for Sample Parcel, post free, containing—
1 card 1d. size
1 card 3d. size
1 card 6d. size

with name of Wholesale Supplier to—

London Office:
Finsbury Pavement House,
Finsbury Pavement,
E.C. 2.

E. LLOYD,
63 WEDNESBURY ROAD,
WALSALL.

PECKETT'S PATENT.

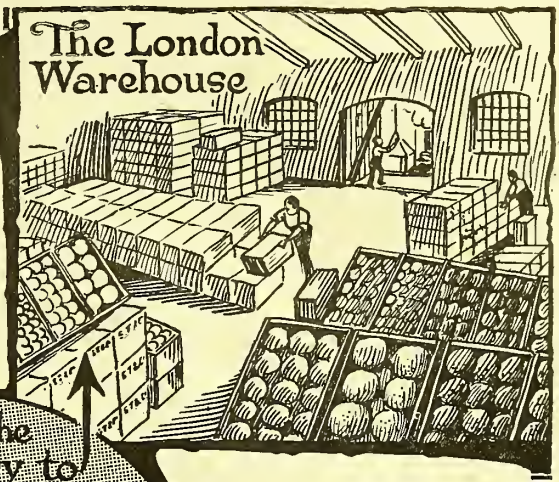


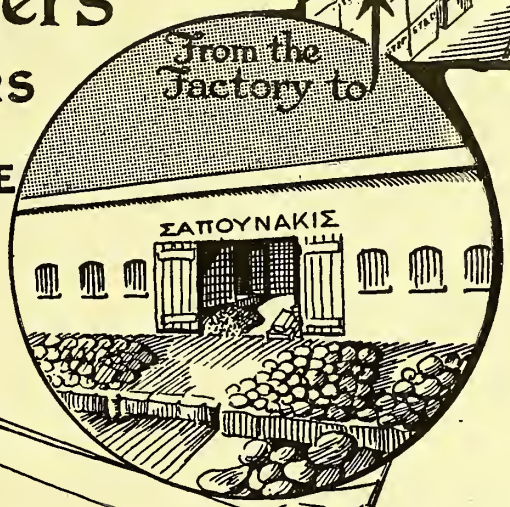
FOLDING SCISSOR, PENKNIFE, MANICURE and LETTER OPENER COMBINED

Sole Selling Agents: **W. FRANKLIN & SON**
(SCISSOR SPECIALISTS).
Finsbury Court, Finsbury Pavement, E.C. 2

Buy Your SPONGES direct from the Importers

NO BROKERS AGENTS OR INTERMEDIATE CHARGES TO PAY





Being the actual Shippers of Sponges from the Mediterranean, we can offer you distinct advantages in variety and price.

Large and continuous shipments of fine Turkey and Honeycomb Sponges direct from our own fisheries, graded and packed in our warehouses.

We invite your inquiries.



SAPOUNAKIS, THOMAS & Co
3, Milk St. Buildings,
- LONDON, E.C.2. -

CHAMOIS
LEATHERS
ALSO
Housemaids' Gloves

Chamois Leather Pads and Mops (Window Cleaners) a Speciality.

For Best Possible Value send for Price List to

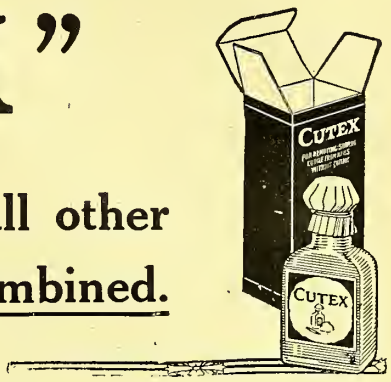
JOHN T. BARRADELL
33 MARKINGTON STREET,
MOSS SIDE, MANCHESTER.

BABY BRUSHES
BONE, EBONY & WOOD HANDLES.
Shaving Brushes
(French Manufacture)
GUARANTEED FREE OF ANTHRAX.
COMBS
RAKES, DRESSING, POCKET, ETC.
SILK BAG PUFFS.
MANICURE—
Complete Sets, and Fittings in Ebony and Ivory.
HYPODERMIC SYRINGES
(French Made)
Camel-Hair Pencils & Mops.
A. E. DEPRETER,
24 HOLBORN, LONDON, E.C. 1.
TELEPHONE: HOLBORN 3182.
TELEGRAMS: "AEDEPRELON, SMITH, LONDON."



TOOTH, NAIL, SHAVING AND BATH BRUSHES.
Makers of the "Athenæum" Tooth and Nail Brushes.
TITTERTON & HOWARD, Ltd. BRUSH MANUFACTURERS.
8 & 10 Ct. Titchfield Street, London, W.1

"CUTEX"



Now a Bigger Seller than all other Manicure Specialties combined.

From the moment that the "Cutex" line appeared, Manicure Specialties were lifted from occasional sellers to quick-moving staples. Manicuring is no longer a luxury, but a regular habit of all particular women.

In 1919 sales were more than doubled, and 1920 has shown the same 100% increase.

To-day the sales of "Cutex" products are greater than those of all other Manicure products combined.

"Cutex" overwhelmingly dominates the field.

"Cutex" has always been heavily advertised, and this year the advertisements which are appearing in all the leading illustrated papers are still more impressive.

You will find that the demand from your trade for the "Cutex" specialties is even greater than ever before.

We regret that we are compelled to add the following footnote.

The popularity of "Cutex" has resulted in the appearance of many imitations. Do not confuse these substitutes with the original "CUTEX," which is always packed in dainty black boxes with a pink seal. Every article bears our registered title, "CUTEX."

Sole Agents for the United Kingdom:

HENRY C. QUELCH & CO.

4 & 5 LUDGATE SQUARE, LONDON, E.C. 4

OFFICES.. GT TURNSTILE, HIGH HOLBORN.
WORKS.. WHETSTONE PARK, LINCOLN'S INN FIELDS.

FORD, SHAPLAND & CO. LTD
LABEL & GENERAL PRINTERS.

TELEPHONE CITY 65.
TELEGRAMS FORSHAPCO, WESTCENT, LONDON.

SHOWCARDS · CARTONS
ENVELOPES OF ALL KINDS,
SHAMPOO, CORN SILK etc.
DENTAL & OPTICAL CIRCULARS.

GT TURNSTILE, HIGH HOLBORN, W.C.1.

AGENTS FOR THE REGISTRATION OF TRADE MARKS.

G. B. KENT & SONS, LTD.

Are known the World over as the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to—

75 Farringdon Road, E.C. 1.

CHEMISTS' OVERALLS
From GARDINER & CO.

We supply protective overalls in any colour or style required. They are made by experienced hands for all branches of the Chemical trade.

KHAKI DRILL	-	16/9	21/-	26/6
WHITE DRILL	-	17/6	19/6	
BLACK DRILL	-	19/6		

Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.
SPECIAL QUOTATIONS FOR QUANTITIES.

GARDINER & CO. (THE SCOTCH HOUSE) LTD.
1 Commercial Road, E.1.
EST. 1839. Phone : AVE. 6650 (4 lines).

Your Opportunity to QUALIFY in OPTICS

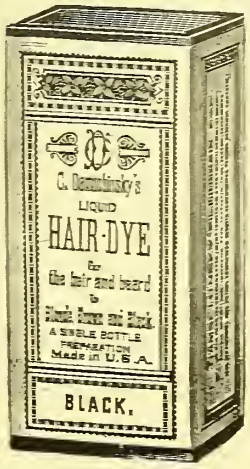
EXPERT Tuition by Correspondence for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.) or the British Optical Association (D.B.O.A.) *Write for full particulars.*

C. A. SCURR, M.P.S., F.S.M.C. —F.I.O., Etc.—
40 *Courthope Road, Hampstead, London, N.W.* 3.

C. DAMSCHINSKY'S

AMERICAN LIQUID DYE.

Single Preparation for the Hair and Beard.



This excellent Dye has an enormous Sale all over the World.

MADE IN
FIVE NATURAL SHADES,
BLONDE, LIGHT BROWN,
BROWN, DARK BROWN,
AND BLACK.

2/- Size 15/- per doz. net.

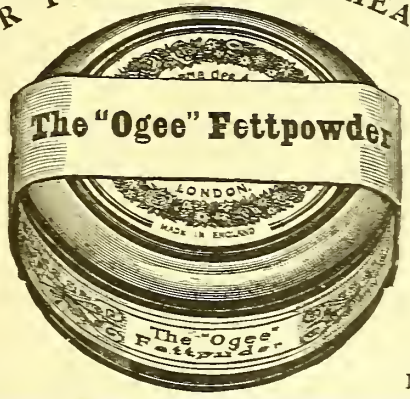
3/- „ 22/- „ „ „

SIMPLE TO USE.
WILL DYE
RED, GREY OR FADED HAIR
TO THE DESIRED SHADE
IN A FEW MINUTES.
IT IS NOT A BLEACH.
WILL NOT DYE DARK HAIR
LIGHTER.

From all Wholesale Houses or direct from sole British Agents :

OSBORNE, GARRETT & CO., LIMITED,
LONDON, BIRMINGHAM AND GLASGOW.

THE "OGEE" FETTPOWDER.
THE Ogee
THE Ogee
THE PREMIER POWDER FOR THEATRICAL USE.



In White, Rose, Natural and Rachel.

PRICE
12/6
PER DOZEN.

PROPRIETORS OF
THE CELEBRATED "OGEE" BRAND OF GREASE PAINTS,
AND THEATRICAL PERFUMERY.

OSBORNE, GARRETT & CO., LIMITED,
BIRMINGHAM. **LONDON, W.** GLASGOW.



TAKE A DAILY DOSAGE!

50%

PROFIT FOR YOU.

SANAGEN is a line that no business-seeking Chemist can do without. It sells with the regularity of clockwork—and 50% of each sale is *yours*.

Continuous Press Advertising continually helps you to sell SANAGEN, and Window Showcards, Displays and Sales-aiding Literature will gladly be sent gratis and post free at any time on application.

Just look over this table of prices and profits, then send in your order.

Sanagen
THE BRITISH NERVE FOOD

4-oz. Size	COSTS 2/- SELLS 3/-	PROFIT 1/-
8-oz. Size	COSTS 3/4 SELLS 5/-	PROFIT 1/8
16-oz. Size	COSTS 6/4 SELLS 9/6	PROFIT 3/2

THE SANAGEN CO., LTD.
Sheepcote Lane, Battersea, London, S.W.11.
Telephone - - - Latchmere 4363.
Trade Sales Agents for Northern Counties and Scotland:
H. PENNEY & CO.,
Bigg Market, Newcastle-on-Tyne ; Manchester, Leeds & Glasgow

For Window Display



RED GUM PASTILLES

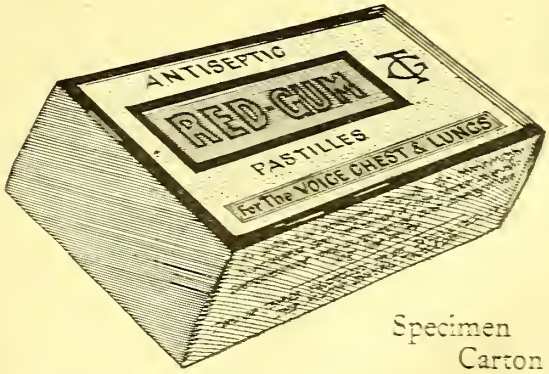
packed in 4-lb. boxes

2/9 per lb.

This Pastille had Record Sales during the past year

and judging by our sales this season bids fair to be more popular than ever.

28-lb. Parcels
including Cartons
and Showcards
CARRIAGE
PAID.



Specimen Carton

THOS. GUEST & CO., LTD., Carruthers St., Ancoats, MANCHESTER.

Telephone: 235 Central. *Telegraphic Address: "Guesto."*

JOB BROTHERS

GUARANTEED PURE GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

IS THE FINEST OIL PRODUCED

It is perfection in colour, smell, taste and absolute purity.
Manufactured from the finest fresh Cod Livers on same day as fish caught.

WHOLESALE ONLY

JOB BROS., Manufacturers, Tower Building, LIVERPOOL

Telegraphic Address: "JOB LIVERPOOL" Tel. 1039 CENTRAL

And of ST. JOHN'S, N.F. Established 1780.

MALT EXTRACT AND



MALT & COD LIVER OIL

Prepared only from the Finest East-Coast Barley, combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lb. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 Gross and upwards.

Telephones: Nitshill—Pollokshaws 14 London—Avenue 5661 (3 lines).

PERRY & HOPE, Ltd.

Telegrams: "Perryope, Nitshill," "Perryope, Led, London."

NITSHILL, near GLASGOW.

London Office: 1 LEADENHALL STREET, E.C.3.



An attractive ENO Window Show at Messrs. Mitchell's Drug Stores, Abbeville Rd., Clapham, London, S.W.

There's PROFIT for YOU in an ENO Window Display

THE chemist who displays a reputable article such as ENO in his window reaps a rich reward in the form of bigger turnover and a bigger circle of satisfied customers. ENO has held the confidence of the public for over fifty years, through real merit and consistent high quality. To-day, ENO is the favourite Health Drink in millions of households all over the world. If you sell ENO you receive a liberal margin of profit and your stock moves quickly—because the ENO national advertising campaign is ever actively co-operating with your own selling efforts.

ENO's FRUIT SALT

"Brings Health to Your Customers and Profit to Your Business"

For Trade Terms, Advertising Material, and details of our SPECIAL WINDOW DISPLAY OFFER, please write to the SALES MANAGER, J. C. ENO, Ltd., Blackfriars House, New Bridge Street, London, E.C. 4.

WHOLESALE ONLY

We Specialise in the Manufacture of

GLASS STOPPERED BOTTLES

for

Perfumes, Chemicals, Spirits, etc.

Stoppering Guaranteed.
Prompt Delivery.

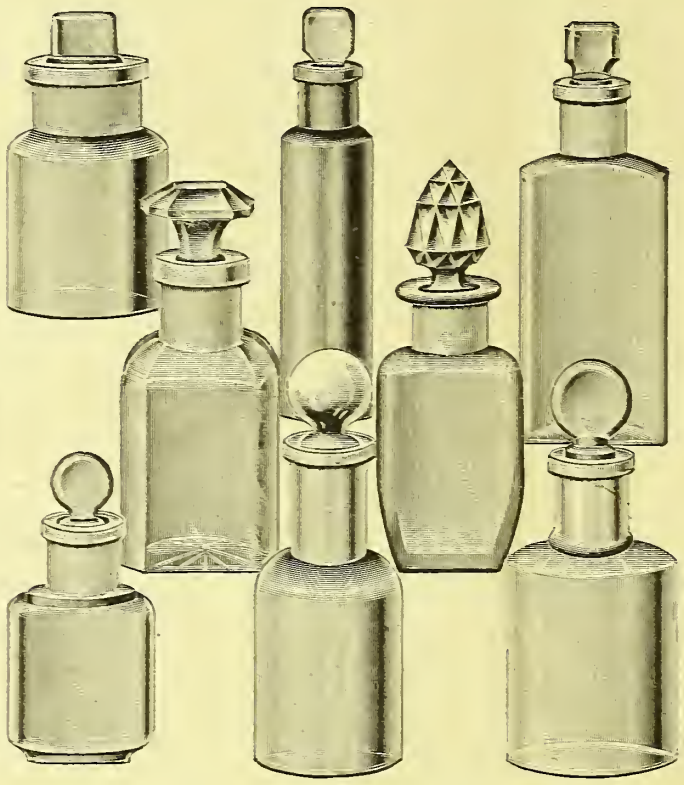
MOULDS for Special Shapes made at these Works.

Samples and Prices on application.

John Dowell & Sons, Ltd.

Globe Works, Chatsworth Road,
Clapton, London, E. 5

Tel. No.: Dalston 2219.
Tel. Add.: "Acetized, Hack, London."



WE MAKE IN ENGLAND

GLASS BOTTLES

ESTABLISHED, 1880.

TRADE MARK

WE import from our special works in France and Belgium all kinds suitable for Chemists, Perfumers, Essence Manufacturers and all kindred trades. We are in a position to give prompt deliveries of reasonable quantities in a reasonable time. Prices on application.

STOCKS OF VARIOUS SHAPES & SIZES.

A. Ruch & Co., Ltd.

Geo. G. Forsyth,

28 MARTIN LANE, CANNON STREET,
LONDON, E.C. 4.

Telegrams—"Sennock, Cannon, London."
Telephone—Central 4799.

CHEMISTS WHO RECOGNISE **MERIT**

observe that it is not the cheapest printing that pays, but First-Class Printing at a moderate price. You can obtain the right class of Printing from . . .

TWS
THOMAS WAIDE & SONS LTD
LEEDS

and it will undoubtedly be to your entire satisfaction, because it is UP-TO-DATE, Attractive, and will Increase Sales.

SEND US YOUR NEXT ENQUIRY

Thomas Waide & Sons
Limited,
Chemists' Printers,
.. LEEDS ..

Full set of Samples sent to Colonies on receipt of 10/6, which we credit if order is given for £10 and upwards

SEED DRESSING.

CARBOLIZED SEED DRESSING

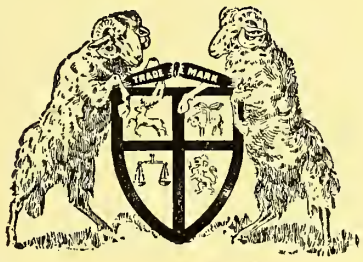
CHEMISTS' OWN FORMULAS.

LIQUID SEED DRESSING, Non-poisonous.

Guaranteed Genuine Sulphate of Copper.
Also Agricultural Strengths.

List and Samples on Application.

TOMLINSON & HAYWARD, LTD.
Agricultural Chemists, LINCOLN.



HAYWARD'S SHEEP DIPS

YELLOW PASTE DIP
LIQUID DIPS
COMBINED GLYCERINE DIPS
NON-POISONOUS PASTE & CAKE
LUDDINGTON'S OILS, &c.
Dips packed in Chemist's name if required.

Write for Particulars to **TOMLINSON & HAYWARD, Ltd., LINCOLN.**



EGG PRESERVING

We are the largest packers and use best quality Water Glass 140 T.W. If you have not received our Price List please write.

YOUR OWN NAME AND TITLE ON LABELS.

A PROFITABLE LINE.

TOMLINSON & HAYWARD LTD., LINCOLN.

Bovril Bonus Scheme

The current Trade Bonus Scheme runs from 1st March, 1920, to 28th February, 1921, covering all purchases of Bovril and Invalid Bovril made between these dates.

Customers who wish to participate, but have not yet intimated their intention to do so, should *at once* write to the Company for full particulars and an entry card.

Window bills for display in connection with the scheme will be posted to all participants early in October. It is expected these will be displayed immediately after receipt.

The demand for Bovril is still steadily increasing, and Retailers are advised to place early orders for stock for the coming Winter.

BOVRIL

BOVRIL, LTD., 148-166, Old Street, City Road, London, E.C.

October 1, 1920.

SLOAN'S LINIMENT

"KILLS PAIN"

(For Rheumatism, Neuralgia, Sprains, Bruises, etc. etc.)

The successive advances which have taken place in cost of production compel us reluctantly to advise the following revision in prices, operative as from above date:

Protected Face Value for Resale	Per doz. Net	Per gross Net
2/-	20/3	£11 2 0
	Per doz.	6-doz. lots per doz.
4/3	42/-	38/-

ORIGINAL CASES ONLY (Small—6 dozen; Large—6 dozen).
Carriage Paid on 1 Gross Small or equivalent.

Sloan's Liniment, as supplied under the revised Minimum Selling Prices of 2/- and 4/3, bears the requisite adjustment in Patent Medicine Stamp Duty—viz. 6d. and 1/- respectively.

FASSETT & JOHNSON, Ltd., St. John's Gate Buildings, 86 Clerkenwell Road, LONDON, E.C. 1.

THE CHEMIST & DRUGGIST

53rd YEAR OF PUBLICATION

DIARY for 1921

53rd YEAR OF PUBLICATION

The recognised Reference Book for Chemists

Incorporating a Trade Directory & Buyers' Guide

FIRMS who have not yet given instructions regarding advertising space and entries in Buyers' Guide should do so at once

CLOSING DATE FOR COPY — OCTOBER 16

Telegrams: "Chemicus, Cannon, London" (2 words)

42 CANNON STREET LONDON, E.C. 4

Telephone: Central 3617 (3 lines)

Just what you want
IN
GLASSWARE
of every description.

YOU may certainly be buying only for immediate requirements and cannot get prompt delivery of the goods wanted. Apart from our huge Provincial stock, bear in mind we have ready for delivery at our various London depots

APPROXIMATELY

10,000 cases
of every description of
Glassware for all purposes.

Screw Stoppered Wide Mouthed Jars



Stoppered Bottle



Oval Screw Stoppered Jars with Screw Caps



The following are some of the lines we offer:

LINES, round green, square, 1-oz., packed about 48 gross cases, 12/- gross net.
Free port London. about 200 gross stock.

LINES, round green, wide, packed about 8 gross cases, 18/- gross net.
Free port London and Newcastle-on-Tyne. about 500 gross stock.

MEDICALS, round green, wide, plain, 1st quality, packed 8 gross cases, 15/- gross net.
Free port Stock at Leeds 200 gross London. 200 gross Liverpool.

MEDICALS, round green, 2nd quality, 1-oz. grad., packed 10 gross cases, 14/- gross net.
Free port London. 400 gross stock.

MEDICALS, round green, 1st quality, 1-oz., plain, packed 8 gross cases, 30/- gross net.
Free port London. 150 gross stock.

WALS, round green, 8 drams, packed 10/12 gross cases, 30/- gross net.
Free port Leith, Hull and Glasgow about 1,000 gross stock in all.

MEDICALS, 1-oz., round green, packed about 12 gross cases, 18/- gross net.
Free port Leith. 4 cases stock.

TUBES, round green, light, Hull and London.

WALS, round green, 1-oz. London only

CHELTENHAMS, 1-oz. flint, London only

WALS, 1-oz., flint, large quantity London.

WALS, 1-oz., flint, large quantity London.

WALS, 1-oz., flint, large quantity London.

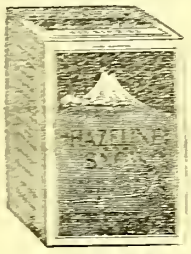
MEDICALS, flint, 1-oz., light, Hull

LINES, green, 1-oz., London only.

Wholesale Only. **No Retail Firms Supplied.**

JULES LANG & SON.

CHARLTON WORKS:
Charlton Place, Islington, London, N. 1.
Mail: as above. Telegrams: Universal, Phone, London.
Please mention this Paper when writing to your advertisers.



Reduced facsimile

Make Your Windows Bright and Profitable

with a display of

"'HAZELINE' SNOW"

(Trade Mark)

It attracts the best class of custom and keeps it.

Customers are familiar with the name, they know the elegance of the product and its value as a skin beautifier.

Therefore they accept it without hesitation and are always satisfied.

Display it now and secure additional and very profitable business

Issued in glass pots at 15 0 per dozen (subject)

BURROUGHS WELLCOME & CO., LONDON

G 942

COPYRIGHT

HODGKINSONS'

Compound
SYRUP of FIGS

has a unique reputation in the Drug Trade of the United Kingdom. It is manufactured exclusively by

THE BRITISH DRUG HOUSES,

and is sold by them

IN BULK

and also packed

"READY FOR RETAIL"

in a variety of styles.

May be had in W. Qts. from all Wholesale Druggists, or direct from

THE BRITISH DRUG HOUSES LTD.

22-30 Graham Street, City Road, LONDON, N. 1.

THE CHEMIST AND DRUGGIST
ESTAB 1859

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in the Overseas Dominions.

Subscription Rates. TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy 9*d*. post free; *Diary*, 5*s*. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20*s*., franco.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 20*cb*., franco.

Terms for Advertising may be obtained on application to the Publisher

HEAD OFFICE: 42 CANNON STREET, LONDON, E.C. 4.

Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (three lines).

BRANCH OFFICES: MELBOURNE AND SYDNEY, AUSTRALIA.

CONTENTS.

No. 14. Series 2123. Vol. 93.

	PAGE		PAGE
British Chemical Trade Association	72	Information Department	64
Business Changes	59	Insurance Act Dispensing	71
Colonial and Foreign News	58	Irish News	56
Coming Events	68	Marriages	63
Correspondence:		New Companies and Company News	59
Letters	78	Notes on Books	60
Subscribers' Symposium	79	Observations and Reflections	65
Legal Queries	79	Personalities	63
Miscellaneous Inquiries	80	Poisonings	54
Deaths	63	Practical Notes	62
Editorial Articles:		Profiteering Act	54
Chemists' Rights Endangered	66	Retrospect	80
Italy's Chemical Trade	67	Reviews of Books	61
Use of Armorial Bearings	68	Scientific Progress	62
Value of a Royal Charter	68	Scottish News	57
English News	53	Standardising Assays	69
French News	57	Trade-marks	61
		Trade Notes	64
		Trade Report	73
		Winter Session	59

Known, Admitted, and Approved Remedies.

Following the practice which we started some years ago we propose to reserve space in the forthcoming issue of *The Chemist and Druggist Diary*, 1921, for the registration of formulas for "known, admitted, and approved remedies." Under the Medicine-Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp duty so long as the formulas are contained in recognised works of reference. A clear indication must also be given on the label of the medicine to the published formula as evidence that the medicine is of the kind to which the exemption refers. *The Chemist and Druggist Diary* was the first book of reference recognised by the Board of Customs and Excise, after the "British Pharmacopœia," and the *Diary*, being published periodically, affords an exceptional opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the *Diary*. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent **not later than October 15** addressed to the Editor, *C. & D.*, 42 Cannon Street, London, E.C. 4.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Carriage of Weed-killer, Sheep-dip, etc.

As from November 1, 1920, new regulations will operate in regard to the carriage by railway of Atlas boiler-preservative liquid, arsenical dunging-liquor, poisonous mordant liquors, liquid, powder or paste sheep-dip, and sheep-wash, arsenical and non-arsenical, liquid or powder weed-killer, arsenical or non-arsenical. The new regulations are the outcome of meetings between the representatives of interested traders and the railway companies, and are the subject of a special circular issued by the Railway Clearing House.

Ministry of Pensions Clinics.

A further circular has been sent to Regional Directors of the Ministry of Pensions regarding the dispensing of prescriptions for malarial patients. The original circular was printed in the *C. & D.*, September 18, p. 67, and for paragraph 4 the following is substituted in the newly issued communication:

4. In tropical clinics where it is found necessary to give medicine to a malarial patient for a longer period than seven days without the case in the meantime attending the clinic, one prescription (covering seven days) only may be given, but may be endorsed "To be repeated . . . times." In no case, however, may this prescription be dispensed more than four times."

(*a*) Clinicians must clearly indicate to the chemist that the prescription emanates from a "tropical" clinic or he will not dispense it more than once.

(*b*) In order that no question shall arise as to the number of dispensing-fees due to him, the chemist will obtain the pensioner's signature on the back of the script each time the medicine is supplied, and will add the date.

The Pricing Bureau will accept this as constituting his claim.

(*c*) The chemist will retain the script after it has once been presented to him, until the period for which it is valid has expired, and then forward it as usual with the next batch of scripts to the Pricing Bureau.

Proprietary Medicines Bill Protest.

Mr. Sidney F. Body, chemist, Southend-on-Sea, is calling a meeting of retail pharmacists at the Middlesex suite, Abercorn Rooms, Great Eastern Hotel, Liverpool Street Station, London, E.C., on October 6, at 3 P.M., to consider the Proprietary Medicines Bill and to discuss a scheme for manufacturing a series of proprietary articles. The agenda begins as follows:

1. To consider Proprietary Medicines Bill and its probable effect on retail pharmacists issuing proprietary articles, both liable and non-liable for medicine-stamp duty.

2. To decide preliminary steps which might be taken to defend their common interest in collaboration with the Local Associations Executive Committee of the Pharmaceutical Society.

3. To consider and, if approved, adopt a scheme for the formation of a company designed to embrace the interests of present owners of pharmaceutical specialities, and to provide for the registration, economical and efficient manufacture and distribution of such specialities on a joint ownership basis.

4. To consider a proposal to associate with the new company a modern London wholesale organisation, fully equipped for comprehensively supplying the constituent shareholders with drugs, pills, tablets, packed goods, sundries, and their respective proprietary articles manufactured and distributed on the lowest economic basis.

Public-health Reports.

The annual report of the medical officer of health for the Metropolitan borough of Poplar, covering the year 1919, contains interesting statistics concerning the output and relative cost of the electrolytic disinfectant fluid distributed free or at nominal rates during the past fourteen years. Since the beginning of August 1914 the fluid has been manufactured in a more concentrated form, for reasons of economy; during the past year the output was 33,285 gals. (equivalent to 66,570 gals. at pre-war strength) at a total cost of 216*l*. 11*s*. 9*d*. It appears that a charge of 8*d*. a gallon is made to manufacturers and other

traders who use the fluid, the actual cost to the borough being about ½*d.* a gallon. It is largely used in spraying and cleansing floors, and is added to the water of the borough swimming baths so as to give a chlorine content of 1 in 2,000,000. The report also mentions that 157 throat-swabs were forwarded for bacteriological examination during the year, and that 65,000 units of diphtheria antitoxin were supplied to local medical practitioners.

Bacteriological examination is prominent also in the sixty-fourth annual report (1919) of the Islington medical officer of health. The number of examinations made for the borough authorities during the year was 928—a slight decrease of the average for the preceding ten years (982). Referring to complaints of delay in obtaining the results of such examinations, the medical officer explains that delay is inevitable so long as swabs, blood, or sputa have to be sent away. He continues: "In many sanitary authorities in the country it is usual to employ a bacteriologist, and indeed such an official is becoming an absolutely necessity in all large boroughs, so that the examinations may be made speedily. . . ." The quantities of disinfectants distributed by the sanitary authority during the year were: Carbolic powder, one ton; "disinfecting fluid," 194 gals.; formaldehyde powder, 1 cwt. 50 lb.; formaldehyde solution, 36 gals. The only article of interest to pharmacists which was found by the public analyst to be adulterated was mustard, three samples of which (out of a total of twenty-five) were adversely reported upon.

Profiteering Act Cases.

At Broadstairs, recently, a tradesman was ordered by the Profiteering Committee to refund 1*s.* 3*d.* on a charge of 2*s.* 6*d.* for a jar of honey of a kind alleged to have been purchased elsewhere for 1*s.* 2*d.*

At a recent sitting of the Bermondsey Profiteering Committee, two complaints were heard against Goodrich, Ltd., drysalters, in respect of sales of methylated spirit. It was stated that on July 6 the Committee's inspector bought half a pint of methylated spirit at the respondents' shop in Old Kent Road, and paid 9*d.* It was subsequently measured, and was found to be 8 oz. instead of 10 oz. The next day another purchase was made at the same shop, and the spirit was 1 oz. 2 dr. short. Other purchases were made at respondents' shops with similar results. The clerk said that the question of the short measure had been brought to the notice of the Weights and Measures Department of the London County Council, but they were unable to take action, as they could only take proceedings in a case of the wilful misuse of a false measure. Mr. Hill, secretary of the company, said that with the increased wholesale price they were entitled to charge 10*d.* per ½ pt. They were expected to get 50 per cent. profit on these volatile spirits. The case was adjourned for an inspection of the trading accounts of the shops in question

At a recent sitting of the Camberwell Profiteering Committee, Parke's Drug Stores, Ltd., answered a complaint with reference to the sale of 1 oz. of cream of tartar for 8*d.* at their Rye Lane, Peckham, branch. Mr. Alfred Higgs, J.P., treasurer of the Thames Valley Pharmacists' Association, appeared for the respondent company. The complainant produced the bill in support of her statement, and added that at two other shops she had been charged 4*d.* and 5*d.* per oz. respectively. In reply to Mr. Higgs, she said that before the war the price was 2*d.* per oz. A letter was read from Messrs. Parke stating that 8*d.* was an overcharge on the part of an assistant and enclosing the amount of the excess charge. Mr. Higgs asked that the letter might be withdrawn, as he was prepared to prove that the price charged did not show a larger percentage of profit than the pre-war percentage. The cream of tartar in question was supplied to the branch on May 12 of this year, and was invoiced at 3*s.* 10*d.* per lb., the pre-war cost being 11½*d.* per lb. The retail prices, 8*d.* and 2*d.* per oz. respectively, showed a gross profit of 64 per cent. He relied on Section 2 (3) of the amending Act. The Committee, after considering the case in private, directed a return of 2*d.*, and ordered proceedings to be taken in a court of summary jurisdiction.

Contracts.

The following Government contracts have been notified:

Crown Agents for the Colonies.—*Candles.*—Price's Patent Candle Co., Ltd. *Drugs.*—Society of Apothecaries of London. *Quinine.*—Howards & Sons, Ltd. *Sodium Arsenite.*—Acme Chemical Co., Ltd.

India Office.—*Ammonium Bromide.*—Whiffen & Sons, Ltd. *Ammonium Chloride.*—Burgoyne, Burbidges & Co., Ltd. *Cajuput Oil.*—Stafford Allen & Sons, Ltd. *Citric Acid.*—Kemball, Bishop & Co., Ltd. *Cod-liver Oil.*—Evans Sons Lescher & Webb, Ltd. *Copaiba.*—Burgoyne, Burbidges & Co., Ltd. *Hexamine.*—Carnegie Bros. *Hydrogen Peroxide.*—Parke, Davis & Co. *Iodine.*—May & Baker, Ltd. *Iodoform.*—T. Morson & Son, Ltd. *Iron and Ammonium Citrate.*—Boots Pure Drug Co., Ltd. *Measures.*—Johnsen & Jörgensen Flint Glass, Ltd. *Mercury.*—Howards & Sons, Ltd. *Potassium Iodide.*—T. Morson & Son, Ltd. *Salicylic Acid.*—W. J. Bush & Co., Ltd. *Tablets.*—Burroughs Wellcome & Co.; Parke, Davis & Co.

War Office.—*Acids.*—Spencer Chapman & Messel, Ltd. *Bleaching Powder.*—The United Alkali Co., Ltd. *Disinfectants.*—Burt, Boulton & Haywood, Ltd.; Jeyes' Sanitary Compounds Co., Ltd.; McDougall Bros., Ltd.; Phœnix Sanitary Co.; The "Sanitas" Co., Ltd. *Electric Cells.*—Siemens Bros. & Co., Ltd. *Linseed Oil.*—Younghusband, Barnes & Co. *Methylated Spirit.*—Bellingham & Co., Ltd.; S. Bowley & Son, Ltd. *Oxygen.*—British Oxygen Co., Ltd. *Photographic Plates.*—Ilford, Ltd.; The Imperial Dry Plate Co., Ltd.; Wellington & Ward. *Soap.*—John Knight & Co., Ltd. *Soda Crystals.*—Brunner, Mond & Co., Ltd. *Surgical Instruments.*—General Surgical Co., Ltd.; W. H. Lewis; S. Maw, Son & Sons, Ltd.

The following tenders have been accepted by the bodies named:

Coventry Guardians.—Wyleys, Ltd., drugs; Robinson & Sons, Ltd., dressings.

Cranbrook (Kent) Guardians.—Mr. A. J. Gray, chemist and druggist, Hawkhurst, medical appliances.

Faversham Guardians.—Mr. J. T. T. Rolfe, chemist and druggist, drugs, etc.

Isle of Thanet Guardians.—Mr. D. T. Evans, chemist and druggist, Margate; Mr. A. H. Siminson, chemist and druggist, Ramsgate; Mr. J. H. Skitt, chemist and druggist, Ramsgate; and Mr. V. J. Woolls, chemist and druggist, Margate; drugs, etc.

Romsey Guardians.—Mr. F. Oram, Ph.C., drugs and dressings.

Poisonings.

The following cases of fatal poisoning have been recorded since our last report:

At Stratford, London, E., a labourer named O'Driscoll committed suicide by taking potassium cyanide while of unsound mind.

At an inquest held in West London, on September 28, on the body of Charles Samson Jaffé (51), a medical practitioner, death was attributed by a medical witness to perchloride of mercury together with coal-gas poisoning. A verdict of "Suicide while of unsound mind" was recorded.

An inquest was held recently at Bolton, Lancs, on the body of Mr. James Higginson, secretary to George Dutton & Son, wholesale druggists, Crown Street. The evidence showed that Mr. Higginson, who had been in indifferent health for some time past, was found unconscious in bed, and died soon afterwards. A medical witness having stated that the cause of death was opium-poisoning, the coroner recorded a verdict of "Suicide while of unsound mind." Mr. Feilding, on behalf of Messrs. Dutton, said the firm had always found Mr. Higginson a good, reliable man, and they deeply regretted his death.

Birmingham.

To commemorate the eighty-first birthday of Mr. George Cadbury, a special thanksgiving service was held at Bournville on September 26.

Workmen in the employ of Cadbury Bros., Ltd., have been given provisional notice, to come into force should the miners and transport workers cease work.

Nomination papers in connection with the election of members to the council of the local Association should be returned to the secretary not later than October 2.

The death is announced, at the age of sixty-five, of Mr. J. W. Malcolm, for forty years veterinary surgeon to the Corporation, who was about to retire on a pension.

A local paper lately contained a recipe for lozenges, one of the ingredients of which was "antispasmodic terebene." The directions ended with "cut out in the shape of lozenges"—a harmless parlour-game for winter evenings.

The hearing of the charge against Phineas Keats, chemist and druggist (*C. & D.*, September 18, p. 50), was continued in Birmingham Police Court on September 23, and was again adjourned. The day was devoted to the cross-examination of a witness named Hirschfeld. The premises and stock at 167 Mary Street, Balsall Heath, have been advertised for sale as a going concern, and offers are invited in the Press for the lease, fittings, etc.

The first anniversary of Alchemy Lodge was held at Severn Street on September 22, when Wor. Bro. F. J. Gibson, P.M. 419, P.P.G. Treasurer, Staffs, was installed as W.M., the retiring W.M., Wor. Bro. T. Barclay, P.G.D., Warwick, officiating as installing master, and the Deputy Prov. Grand Master, the Rev. Canon Barnard, as chaplain. The Prov. Grand Master, Colonel W. F. Wyley, was unable to attend. The following officers were appointed for the ensuing year: *I.P.M.*, Wor. Bro. T. Barclay; *J.W.*, Wor. Bro. J. W. Shields; *Almoner*, Wor. Bro. F. Barlow; *D.C.*, Wor. Bro. C. E. Ison; *J.D.*, Bro. W. E. Hipkiss; *I.G.*, Bro. W. H. Fletcher; *J. Std.*, Bro. J. Tolmie; *S.W.*, Wor. Bro. Maurice Smith; *Treasurer*, Wor. Bro. A. W. Gerrard; *Secretary*, Wor. Bro. F. C. H. Foster; *S.D.*, Bro. J. Robinson; *Assist. Sec.*, Bro. C. B. Baker; *S. Std.*, Bro. A. H. Gill; *Assist. Stds.*, Bros. E. W. Saunders and C. L. Moores. The toast of "The Worshipful Master" was proposed by Wor. Bro. Gerrard, who feelingly referred to the public services rendered by Wor. Bro. Gibson. The Lodge now numbers nearly sixty members.

Liverpool.

Mr. T. Fell Abraham, Ph.C., is one of the Commissioners of Income Tax assisting in the current appeals.

Clay & Abraham, Ltd., are taking over the pharmacies of Symes & Co., Ltd. Dr. Symes has expressed his intention of retiring, as his eyes need rest and relief from the overstrain of the laboratory work in which he has long delighted.

Activity on the part of the counter thief is again reported. Only by a peep-hole and a vigilant eye can such thefts be detected when the backs of the proprietor and the assistants are turned. Dummies with string attached appear to be out of date.

Owing to the spell of late summer weather, holidays are being prolonged and second holidays taken by the fortunate. Hence, window displays of photographic apparatus are still in vogue, and there is a revival of the demand for the vacation toilet-requisites.

Mr. Harold Lomax had just finished dressing the photographic window at his Edge Lane pharmacy, the other day, with a display of daylight enlargers, when a man who looked like a fancier walked in and said: "Hey! Mister! What's the price o' them chicken incubators?"

At Liverpool Police Court, recently, Mr. Alexander Stephen, chemist and druggist, 70 Prescot Road, Fairfield, was fined 5*l.* on each of two summonses for selling arsenic without complying with the requirements of the Arsenic Act 1851, and for selling potassium cyanide not labelled with the name and address of the seller.

Mr. W. Stuttard, a Fairchild scholar and manager of the Kirkdale branch of H. Lomax, Ltd., tied with a Chicago druggist for the top place in the "Rexall Course of salesmanship" at the recent test. This test is open to the 8,000 Rexall chemists of the United Kingdom, Canada, and the United States of America.

A pharmacist who deals largely in sundries was asked by an income-tax surveyor to state the present value of his stock. He replied that stocktaking would occupy two months, and would have to be performed, in large part, after closing time. It was arranged to accept a certified estimate by an expert from Evans Sons Lescher & Webb, Ltd.

On September 28 there was a joint excursion by a comparatively small party of Liverpool, Manchester, Bootle, Wallasey and Southport pharmacists. Starting from their various homes about 7.30 A.M.—we keep early hours in the district—they united forces at Preston, were greeted in passing at Lancaster, and spent a long day in the Lake District, returning home at midnight. The party was personally conducted and entertained by a pharmacist who was born and educated in Lakeland.

Sheffield.

The local Students' Association went to Wyning Brook on September 23 for an outing, and informally bade farewell to the retiring officers.

Local pharmaceutical opinion inclines to the belief that the municipal authorities would like to stop the sale of drugs by irresponsible persons—if they could.

Students who attend the secondary school botany classes on Thursdays consider that these classes should be arranged for some other time, so as not to interfere with the half-holiday.

A health and education camp involving a capital expenditure of 37,000*l.* is to be established at Redmires. Children are to be collected, it is understood, from various schools, and to be provided with a resident medical officer and at least two nurses.

A Liverpool correspondent ("L. & Y.") writes: "The photograph of the reconstructed premises of G. T. W. Newsholme, Ltd. (*C. & D.*, September 25, p. 66), is in striking contrast to the former pharmacy as I recall it when a child fifty-five years ago, with its slightly bowed single window and many small panes. The proprietor, William Valentine Radley, was daily behind the counter. He was a leading man in his profession, and his kindly manner towards juvenile customers was reflected by his assistants. From one of these I received a first lesson in chemistry. He showed me how to clarify the oil for my magic-lantern by the addition of camphor, and gave me the camphor for the successful experiment."

Miscellaneous.

Tea.—As from September 23 tea has been removed from the list of prohibited exports from the United Kingdom.

Summer Time Extended.—Since the announcement we made last week an Order in Council has fixed October 25 for the ending of the present period of summer time, in place of September 27.

Deaths from Acid-burns.—Two of the persons injured in Bradford by splashing of sulphuric acid from a motor-lorry in a collision with a tramway standard (*C. & D.*, September 25, p. 66) have since died.

Fire.—An outbreak of fire occurred on the premises of Brandram Bros. & Co., Ltd., chemical manufacturers, Neptune Street, London, S.E. 16, recently. The fire is attributed to the overheating of a drying-stove. No considerable damage was done.

Works Fatality.—An accident of an unusual type occurred recently at the works of the Standard Malt Extract Co., Clayton-le-Moors. A load of bottles fell down a hoist, and a workman named Ridehalgh was struck and was fatally injured.

Celluloid Scarcity.—"The Morning Post" reports an acute scarcity of celluloid following on the high price and world shortage of camphor. Sheffield's annual requirements are from 400 to 500 tons, and at the average market price of 1,000*l.* per ton, represent an expenditure approaching half a million sterling. Synthetic camphor is rejected for the manufacture of celluloid for use in the cutlery trade, on account of the brittleness of the product.

New Price-unit for Gas.—The South Metropolitan Gas Co. has issued an announcement to the effect that in future its gas will be charged by the "therm," a unit arrived at by multiplying the number of cubic feet consumed by the declared heating value and dividing the product by 100,000. The new prices are equivalent to an increase on the company's current rates of approximately 1¾*d.* per 1,000 cubic feet for ordinary meters.

Women Employment Bill.—In connection with the Women, Young Persons, and Children (Employment) Bill, the Home Secretary has appointed a Departmental Committee to consider whether it is desirable that the Factory and Workshop Acts should be amended so as to allow women and young persons to be employed on the system of two-day shifts, and, if so, what should be the length of the shifts and the time for beginning and ceasing work.

International Catalogue of Scientific Literature.—An international council, convened by the Royal Society for the purpose of continuing the compilation of an international catalogue of scientific literature, held its opening session in London on September 28, Sir Joseph Thomson presiding. The council will consider what steps can be taken in view of the difficulties of straitened finances and of collecting material from Germany, Russia, and other disturbed areas.

In the Courts.—At Pontardawe, on September 24, Griffiths J. Thomas, who is charged with wilful murder (*C. & D.*, September 18, p. 51), was committed for trial.—At West London Police Court, recently, the Simplex Rubber Co., Ltd., Scrubbs Lane, N.W. 10, were fined 2*l.* for employing a young person contrary to the regulations of the Factory and Workshop Act. Counsel for the defendant company explained that the lad in question was tall and had a very loud voice, so that no one would take him for a young person.—At Westminster Police Court, on September 28, Rose Burroughs was remanded on a charge of attempting suicide by taking lysol when being arrested for theft.

Death from Arsenical Dermatitis.—A "Misadventure" verdict was recorded by the Westminster coroner, on September 24, in the case of a motor-driver named Collins. The evidence showed that the deceased had been treated at the London Lock Hospital, Soho, with novarsenobillon, and he had to take mercurial pills three times a day. It was stated that, out of 2,600 cases treated at the hospital, only six had dermatitis, and this was the only one that had proved fatal. Dr. Henry Weir, pathologist at Charing Cross Hospital, who made a post-mortem examination, was of opinion that death was due to syncope and dermatitis following the injections. The percentage of cases of dermatitis was 24 in 10,000, and only one was fatal.

Committee to Investigate Blindness.—The Minister of Health has appointed a committee to investigate and report on the causes of blindness (including defective vision sufficient to impair economic efficiency), and to suggest measures which might be taken for the prevention of blindness. The following are its members: Mr. G. H. Roberts, M.P. (chairman); Mr. Stephen Walsh, M.P.; Mr. N. Bishop Harman, M.B.; Mr. J. B. Lawford, M.D.; Mr. G. F. Mowatt; Mrs. Wilton Phipps; Mr. J. H. Parsons, F.R.C.S. (Royal College of Surgeons); Mr. J. Taylor, M.D. (Royal College of Physicians); Mr. J. C. Bridge, F.R.C.S. (Home Office); Mr. A. Eicholz, M.D. (Board of Education); Mr. J. S. Nicholson (Ministry of Labour); Mr. W. M. Stone (Scottish Office); and Mr. E. D. Macgregor (Ministry of Health). A representative of the Medical Research Council will be appointed later. The secretaries are Dr. R. A. Farrar and Mr. P. N. R. Butcher.

Cocaine Case.—The hearing of the case in which three women are charged with conspiring to deal in cocaine without authority (*C. & D.*, September 25, p. 67) was continued at Marylebone Police Court, London, on September 25. A police witness stated in evidence that while he was waiting at the flat in Great Woodstock Street, mentioned in the charge, six women called at intervals and asked for fictitious persons. He found a set of scales and weights, three hypodermic syringes, fourteen receptacles containing white powder, and nine needles. One of the accused, interposing, said that some of the "cocaine" found at another address was boracic powder. A further remand was ordered. The hearing was concluded on September 29, when the chief witness was Mr. John Carmichael, Government analyst, who said he had analysed nineteen samples of powder submitted to him by the police. One contained 3 gr. of cocaine; two others contained 244 gr.; and the other samples contained boric acid, morphine, and heroin. Witness pointed out that ¼ gr. of cocaine was a British Pharmacopœia dose, and he estimated that the 244 gr. would make about 500 doses for a person who was in the habit of taking it. Raichlen was sentenced to six weeks' imprisonment in the second division; Gunn was fined 10*l.*; and McMahon was discharged.

London Chemists' Golfing Society.—The September meeting of the London Chemists' Golfing Society, held at Enfield, was devoted to eighteen-hole medal play for the Hepburn Shield, the runner-up receiving a prize from Mr. C. Macdonald. Play resulted as follows:

C. Macdonald	81 – 6 = 75
M. Carmichael	85 – 9 = 76
W. Ballantyne	91 – 12 = 79
W. Attwood	95 – 16 = 79
A. Boyes	97 – 15 = 82
F. Cooper	95 – 12 = 83
H. Marshall	104 – 16 = 88
J. Deas	107 – 16 = 91
A. Barnett	106 – 15 = 91

Anthrax in Shaving-brushes.—At an inquest held in Westminster, on September 24, on the body of Robert Hunter, a woollen merchant, residing in West London, the house surgeon of St. George's Hospital expressed the opinion that death was due to toxæmia from anthrax, probably contracted from a shaving-brush. Dr. James B. Howell, medical officer of Hammersmith, referring to the first case of this kind, which was reported to him in 1915, stated that on that occasion some experts inspected the brush, and found that it was infected with anthrax. The brush was of a very common variety, sold in those days at 6*d.* each. They consisted probably of vegetable fibre and hairs from cows' tails. The cow was very commonly affected with anthrax. The importation of shaving-brushes from Japan was prohibited after that case. Witness had seen the remainder of the stock of brushes similar to that which had been purchased by Hunter, and he had no doubt that the place of origin would be traced. The inquest was adjourned.

Irish News.

Brevities.

The Longford Drug Co. have opened a new medical hall in Main Street, Longford.

In a serious bomb explosion in Cork during Curfew hours on September 27 the pharmacy of Mr. Lester, Ph.C., was badly damaged and the windows of the Cork Chemical and Drug Co., Ltd., had many windows shattered.

In connection with the forthcoming elections to the Council of the Pharmaceutical Society of Ireland (*C. & D.*, September 11, p. 49), voting papers should be returned before noon on Monday, October 4, and not as stated.

A party of soldiers, accompanied by an officer, raided the premises of Mr. John Walsh, Ph.C., Maghera, co. Derry, recently, and after a search lasting almost three hours Mr. Walsh was arrested and taken away by the military.

The Local Government Board has pointed out in regard to medicines obtained for use in the Kells Union that serum ordered and supplied was not procured from the regular contractor and was charged for in excess of the price quoted in the list. The clerk explained that the serum mentioned was got urgently for diphtheria patients in Moynalty, and there was no time to await a supply from the contractors in Liverpool.

The Local Government Board has directed the Sligo Guardians to forward to the contractor for drugs a copy of the report of the analyst regarding certain samples for the Sligo dispensary. The report states that the drugs were not of the required standard.—At the meeting of the Co. Sligo Infirmary Committee it transpired that the forms used for medicine contracts were those of the Local Government Board for use in unions. It was agreed to ask the medical officer and the dispenser to make out proper forms for use in the institution.

Belfast.

The boycott of North of Ireland wholesale firms, including drug-houses, still continues, but there are signs from several districts that it is beginning to break up. Numerous traders have written to city firms asking them to try to get goods through by indirect routes, and others have written stating that they will resume dealing at the first moment they can. A committee representative of the various wholesale trades is being formed to watch the interests of the boycotted firms.

At a county meeting held in Belfast on September 24, convened by Viscount Massereene and Ferrard, his Majesty's Lieutenant for Antrim, with the view to giving co. Antrim an opportunity of continuing under peace conditions the various organisations for alleviating distress, which were in existence during the war in connection with the Red Cross and other societies. It was decided to appoint a committee, and among those elected thereto was Mr. Huston Lancashire, J.P., Ph.C., Ballymena.

The spacious premises of William Dobbin & Co., Ltd., chemists and general merchants, 45 and 47 North Street, Belfast, have been leased to a local syndicate, which is to get possession on March 1, 1921. Mr. William C. Dobbin, Ph.C., who has been connected with the business from boyhood, and has been managing director for a number of years, is about to retire. Mr. Leonard T. Dobbin, junior director and son of Mr. William C. Dobbin, will continue in the same locality the drug, sundry, and photographic goods business, together with the Rexall agency.

Scottish News.

Presentation to Mr. J. Rutherford Hill.

At the annual meeting of the Scottish Association of Insurance Committees, at the Caledonian Hotel, Inverness, on September 23, Mr. J. Rutherford Hill, Ph.C., A.F.I., resident secretary in Scotland of the Pharmaceutical Society, was entertained to a complimentary dinner and presented with a gold-mounted fountain-pen in recognition of his work in connection with the pharmaceutical service under the National Health Insurance scheme. Mr. John Milne, chairman of the Aberdeen Burgh Insurance Committee, in making the presentation, said that while they all knew Mr. Hill as a "bonnie fechter," they also highly appreciated his willing helpfulness in the setting-up and development of the service. They rejoiced in the recent honour conferred upon him by his professional brethren, and asked his acceptance of this gift as a tangible evidence of their respect and a well-deserved recognition of the good work he had done. On the same occasion presentations were made to Mr. G. W. Wight, late head of the Insurance Committee Department of the Scottish Insurance Commission, and to Mr. William Jones, secretary to the Glasgow Burgh Insurance Committee, who has accepted an appointment under the Public Health Department of the Glasgow Corporation.

Brevities.

With the more hopeful outlook, business has become brisker.

In a recent consignment of camphor a Scottish chemist found a large lump of opalescent glass.

Section 1 of the Venereal Disease Act has been applied to the county of Moray, including the burghs.

A chemist in a seaside resort is offering 25 per cent. discount on his "end of the season" surplus stock.

A Scottish medico recently affixed the following notice on his door: "From home on holiday; you can consult any other doctor you like till my return."

Miss Isabel Gray, daughter of Mr. J. Gray, chemist and druggist, of Davidson & Gray, Dundee, has received an appointment on the teaching staff of the Royal Academy of Music, London.

"Your editorial on 'The Metric System in Pharmacy,'" writes a correspondent, "is exactly the voice of practising chemists, and gives the case against the system very clearly. The dosage for the patient is frequently overlooked by advocates of the system, who might hesitate to go to the expense of metric glassware for themselves."

Glasgow.

The new wages-scale for drapers' assistants in this city ranges up to 90*s.* a week.

George Walker, Sons & Co., manufacturing chemists, are exhibiting at the Health and Housing Exhibition, now being held at the Kelvin Hall.

Glasgow Veterinary College is to be maintained as a teaching institution. Two Government grants are to be made, one to wipe out the deficit accumulated during the war, and another, of 1,250*l.*, towards investigating the diseases of sheep.

French News.

(From the "C. & D." Paris Correspondent.)

M. Paul Kestner, to whom the Society of Chemical Industry awarded its Gold Medal at Newcastle-on-Tyne (*C. & D.*, July 17, p. 50), is the President of the newly-founded French Society of Industrial Chemistry.

M. L. Lafay and M. Famel, Paris, have been appointed officers of the Legion of Honour. The Cross of Chevalier has been awarded to M. Patein, head pharmacist at the Lariboisière Hospital, and to eleven military pharmacists.

The Minister of Agriculture announces that the 2,500 tons of sulphate of ammonia to be delivered monthly by Germany (in execution of the Treaty of Peace) in October, November, and December of this year are sold at 142fr. per 100 kilos. in bulk on truck at the French frontier, or 147fr. in sacks.

Copper in Plants.—According to MM. Maquenne and Demoussy copper is always more noticeable in the portions which have the most vital activity—*e.g.*, in early spring in the bud, in autumn in the kernel of the fruit. It seems, therefore, to be the opposite of lime, which is always more abundant in old organs. Copper is, in this connection, "an essentially migratory element."

The two biennial 500-fr. prizes offered by the Pharmacie Centrale de France were suspended during the war. The accumulated funds are to be expended by making the competitions annual for a certain number of years. Both the Brassac and the Lefranc prizes are for subjects "relating to pharmaceutical practice or sciences in touch with pharmacy." Papers are received until December 31, and the awards are published at the 1921 general meeting of shareholders.

Strange "Tails."—During the recent "Rat Week" one mighty hunter presented a large collection of rat tails to the competent authorities, claiming the official reward of twenty-five centimes per head. This recompense, it was pointed out, was only payable on production of the entire animal—it was distinctly *per capita*, and not *per caudam*. The claimant explained that he had invented a new and special vermin killer, which on absorption produced an explosion in the animal's interior and destroyed the body! Further investigation established the fact that the "tails" were ingeniously made from string, etc., and a "descent" by the police disclosed a store of some thousands of these articles neatly prepared.

Colonial and Foreign News.

Chemists' Memorials.—The German chemical industry proposes to erect at its expense monuments to Adolf von Baeyer in Munich and to Emil Fischer in Berlin. The latter is to be placed in front of the chemical institute of the university, close to the villa in which he used to live.

Canadian Wood Alcohol.—A wood-alcohol industry will be added to the list of manufacturing plants in New Westminster, B.C., in the near future. It will be the only plant of its kind on the coast, and raw materials, which at present are going to waste along the Fraser Valley, in the form of alder, birch, and maple trees, will be converted into marketable products.

Central Laboratory in Sweden.—The State Medicinal Board is working out a plan for the establishment of a large central laboratory with the object of centralising the manufacture of medicines in Sweden. The Board proposes to adapt for this purpose the Aktiebolaget Svenska Faergaemnesindustri buildings in Soedertelje in co-operation with Aktiebolaget Vin och Spritcentralen, Stockholm.

Pharmaceutical Preparations in Salvador.—The "Diario Oficial" (San Salvador) for June 17 contains copy of a law (Ley de Farmacias), dated June 10, which regulates the exercise of chemists' and pharmacists' trade in the Republic. The new law supersedes the previous one of 1895, and subsequent modifications. The complete text of the law (in Spanish) may be seen by persons interested at the Department of Overseas Trade, 35 Old Queen Street, London, S.W. 1.

Soap in Germany.—The Ministry of Economics announces that the statement made in various newspapers relating to free trade in soap in Germany is erroneous. The Order of June 1917, which prohibited free trade in, as well as the free import and export of, soap is still in force. The Government, moreover, has no intention at present of removing the restrictions, since a large number of German soap-works are still lying idle and are unable to give employment to their workers.

Brush Imports into Australia.—The Australian Commonwealth has prohibited the importation of all brushes or toilet articles containing or made of animal hair which have been manufactured in Eastern or South-Eastern Asia, India, Ceylon, Japan, the East Indian Islands, or the Philippine Islands, unless a certificate from a responsible officer of the Health Department of the country of origin, satisfactorily identifying them and stating that the hair has been effectively cleansed and disinfected before manufacture, is produced to the Commonwealth Customs within sixty days of the arrival of the goods in Australia.

Cheap Dressings.—The association of German local sick clubs has founded a central warehouse for the supply of surgical dressings, etc., to its members, and is urging them to procure these articles from this warehouse, instead of having them supplied to sick club members by the pharmacists. As a special inducement they point out that by this means a saving of 50 per cent. can be effected, and pharmacists have to confess that the prices at which these articles are being offered by the warehouse are in some instances quoted at prices far below those agreed upon in the tariff drawn up between the German pharmaceutical association and the sick clubs. It is pointed out that the sick clubs are able to quote these low prices since they succeeded in purchasing large amounts of army stores.

German Export Duties.—Among the reductions in export duties are the following (the figures in parentheses representing the previous tax): Oak-bark and bark of coniferous trees, 5 per cent. (10); oak, pine, and chestnut extract (fluid or solid), 2 per cent.; sumach extract and other tanning extracts, quebracho extract (fluid or solid), 1 per cent. (4); sensitised photographic-paper, 4 per cent. (6); potassium chloride (loose), 5 per cent. (10); tin salts and other tin compounds, 2 per cent. (4); mercuric chloride, 2 per cent. (5); mercuric oxide, 2 per cent. (5); other metalloids, acids, salts, and metalloid compounds, 3 per cent. (5); wood-spirit, acetone, formaldehyde in solution (formalin, formol) 3 per cent. (10); rennet, 2 per cent. (6).

Italian Mercury.—We recently gave some particulars of the Italian production of mercury at the Monte Amiata mines in the Grosseto-Siena region of Italy. The U.S. Commercial Attaché at Rome has also written a report on this subject, in which he states that the future production lies in the extension, rather than in the depth, of the producing zone. Experts estimate that the region will continue to supply ore in undiminished quantity for several years to come. This, however, is dependent upon the discovery and exploitation of new beds. Under present conditions of abnormally high fuel and labour costs, only the richest deposits are being worked at a profit. Cheaper processes of production may be devised that will render available vast deposits of low-grade ore that are not workable at present.

Pharmacists Eligible for Commissions.—The service rendered by pharmacists in the United States Army is about to be recognised. The Board of Review of the Medical Department, set up in accordance with recent legislation, has recommended a number of pharmacists as eligible, under certain conditions, for commissions in the new medical administrative corps. As in the British Army, little pharmaceutical work is done, except at hospitals. It is considered that the commissioned pharmacist could hardly be assigned to strictly pharmaceutical work in the administrative medical corps unless in the case of a special post or base dispensary, where he could exercise supervisory authority over the distribution of supplies and the training of young men in pharmaceutical work. The dispensing of prescriptions will still be performed by experienced non-commissioned officers and men. It is understood that several pharmacists have been recommended for commissions.

Greek Chemical Industries.—The Canadian Trade Commissioner at the Piræus, in the course of a report on Greek chemical industries, mentions that Greece produces acids and chemical fertilisers chiefly at the Piræus, where the annual output amounts to 20,000 tons of copper sulphate, 300 tons of nitric acid, and 400 tons of hydrochloric acid. Some 26,000 tons of superphosphate is also produced, Tunis phosphates being imported for this purpose. A company producing aniline colours at Phaleron was visited by the writer. Here, with imported raw material, various colours and chemical products to the value of 500,000 dr. are produced annually. About 2,000,000 okes (5,600,000 lb.) of turpentine are produced annually in Greece, being extracted from pine resin which on distillation yields 20 per cent. of spirit. Prior to the war Greece exported to Hamburg alone some 1,000 tons annually, which was employed in the preparation of synthetic camphor. This Greek turpentine formed the basis of a new industry in Greece during the war. By mixing 80 to 90 per cent. of turpentine with 10 to 20 per cent. of ether or alcohol there was manufactured a product known as "motorine," which supplemented in Greece, and with some success, the use of benzine in army motor-cars. Another product, known as thaline (obtained by purifying oil of turpentine), was also made for substituting petroleum as an illuminating material. An electro-chemical factory near Gorgopotamo in Eastern Macedonia, by means of electric furnaces whose power (some 1,000 h.p.) is supplied by the river of that name, gives employment to twenty-eight workmen and turns out 800 tons of calcium carbide per annum. The other important chemical industry in Greece is the manufacture of soap, which in the peninsula proper is generally made with green sulphur oils extracted from the olive stone, which are treated with carbon disulphide for the purpose of removing the sulphur. Caustic soda rather than carbonate of soda is also employed, with the combined result that the soap is both dark and caustic. On the islands, however, the clearer oils and the carbonate utilised give a milder and whiter soap. There are seventeen soap manufacturers in Piræus, Athens, and its environments.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

Melbodel Synd, Ltd. (P.C.).—Capital, 1,000*l.* Objects: To adopt an agreement with the Melbodel Synd, to carry on the business of investigating scientific principles and applying the same to industry, including chemical manufacture, etc. R.O.: 45 Priestgate, Peterborough.

Kinson Manufacturing Co., Ltd. (P.C.).—Capital, 1,000*l.* Objects: To carry on the business of chemists, druggists, drysalters, oil and colour men, etc. The first directors are: J. R. Caldwell, Westhouse, Milngavie, Glasgow; B. P. Davidson, 3 Alexandra Terrace, Ashley Avenue, Belfast; and E. Donaghey, 6 Fitzwilliam Street, Belfast. R.O.: 147 Minories, London, E. 1.

Edwin R. Thomas & Co., Ltd. (P.C.).—Capital 1,500*l.* Objects: To carry on at Beaumaris and elsewhere the business of dispensing and agricultural chemists and druggists, dealers in photographic, optical and surgical appliances, as formerly carried on at 40 Castle Street, Beaumaris, Anglesey, as the "Executrix of Edwin R. Thomas," and to adopt an agreement with Eleanor Thomas. Solicitor, W. R. Jones, Amlwch, Anglesey.

F. R. Barlow & Co., Ltd. (P.C.).—Capital, 2,000*l.* Objects: To take over the business of a chemist and druggist carried on by F. R. Barlow at Devizes; to adopt an agreement between F. G. Summerton, Gladys de Bank Summerton, and W. E. Hewlett, and to carry on the said business and that of opticians, etc. The first directors are: F. G. Summerton, 37 Market Place, Devizes, and Gladys de Bank Summerton, 37 Market Place, Devizes. R.O.: 37 Market Place, Devizes.

Another Rexall Deal.—It is announced from Boston that the United Drug Company, through one of its subsidiaries, the Seamless Rubber Company, Inc., of New-haven, Conn., has purchased the very extensive dipped rubber goods business, machinery, formulas, trade-marks, etc., of the Miller Rubber Company, Akrow, Ohio. The latter company intend to devote more attention to the manufacture of automobile tubes and tyres, a department in which the Miller Company already have business running into nearly fifty million dollars annually.

Lever Bros., Ltd.—The directors of the African and Eastern Trade Corporation announce that they have entered into a contract with Lever Brothers to bring under one control their various businesses and Lever Brothers' West African interests, including those of the Niger Co. If the proposals are adopted, each ordinary shareholder will receive for each fully-paid ordinary share two and a-half fully-paid 15 per cent. preferred ordinary shares of 1*l.* each of Lever Brothers ranking for dividend as from January 1 last. In other words, he will hold shares carrying a total fixed cumulative preferential dividend of 37½ per cent. per annum for each 1*l.* of paid-up ordinary share capital. Three million new 15 per cent. preferred ordinary shares of 1*l.* each will be created, ranking as regards both dividend and capital after the A and B preference shares. These three million shares, with the unissued 1*l.* ordinary shares amounting to upwards of two and a-half million, which it is proposed to convert into similar 15 per cent. preferred ordinary shares, will provide more than sufficient shares to enable the company to issue to each ordinary shareholder a bonus distribution of one and a-half 15 per cent. preferred ordinary shares paid up for each 1*l.* paid up ordinary share capital. In addition, four million 1*l.* ordinary shares, ranking behind the preferred ordinary, are to be created, and the right is retained of creating eight and a-half million 1*l.* new preference shares ranking in priority to the preferred ordinary, but no such issue as the latter is at present contemplated. The four million new ordinary shares will be allotted to Lord Leverhulme in exchange for four million fully-paid 20 per cent. A preferred ordinary shares in Lever Brothers.

Associations' Winter Session.

Bolton.—At a meeting of the Bolton Pharmacists' Association held recently, Mr. W. R. Blain gave an interesting lecture on *British Coinage from the Time of Elizabeth*. Coins of various denominations of all the reigns during the period were shown, and points of interest were explained.

East Anglia.—The East Anglian Federation of Pharmacists held the quarterly meeting on September 23, at which the President (Mr. P. Robinson, Norwich) presided. Mr. F. Pilkington Sergeant addressed the meeting, and dealt with the Proprietary Medicines Bill, pointing out that the main object of the Bill was to provide for the proper registration of proprietary medicines, and it would appear that the Bill would not be such a menace to pharmacy after all, provided certain amendments were made and the wording of some clauses elucidated. The question of dispensing for Tropical Disease Clinics was discussed, and a letter was read from Mr. Smalley, a Vice-President, in which he expressed the view that the proportion of profit was very small, especially when compared with the average Insurance prescription. It was resolved to leave the matter in abeyance for the time. The meeting agreed that the minimum retail price-list of the "British and Colonial Pharmacist" be adopted, and it would be open for the constituent Associations to adjust the prices as local committees might require. The Unemployment Act was considered, but no action was taken. It was decided to hold the next quarterly meeting in Norwich in December. A collection for the Benevolent Fund realised the sum of 1*l.* 5*s.*

London.—A meeting of the Executive Committee of the London County Pharmaceutical Association was held on September 21, Mr. A. J. Wing (President) in the chair. A letter from the Committee of the North London Pharmacists' Association regarding the Metropolitan Federation was submitted, but as the letter was not final no action was taken. A letter from the Western Pharmacists' Association suggested that prompt action should be taken regarding the Proprietary Medicines Bill. During the discussion it was contended that amendments to the Bill should be prepared forthwith. A resolution was then passed. A letter from the Early Closing Association regarding the extension of the Early Closing Order until December 31, 1921, was formally received. The Executive Committee appointed an Employers' Sub-Committee which will meet on October 26. The secretary was then requested to communicate with each district Association, suggesting that a meeting of employers be held so that the views of each area may be submitted to the Sub-Committee on that date. The secretary reported on the annual meeting of shareholders of the "Script" (S. P., Ltd.), submitting a copy of the financial statement, and on a proposal to hold a mass meeting of members within the area covered by the Metropolitan group of Associations. The report of the Pharmaceutical Insurance Sub-Committee was adopted. In connection with the forthcoming annual dinner it was agreed that the arrangements be entrusted to a Dinner Sub-Committee, consisting of representatives of each district Association as follows: Messrs. H. S. Watson, W. E. D. Shirtliff, A. R. Melhuish, C. W. N. Fox, J. Keall, A. R. Keith, A. H. Jenkin, A. J. Wing, J. Murison, and the secretary.

Business Changes.

Mr. W. Lee Bray, chemist and druggist, son of W. Bray (A. de St. Dalmas & Co., Ltd., Leicester), has taken over the business of Mr. A. Cousins, chemist and druggist, Fore Street, Buckfastleigh.

Mr. Cyril Halder, late manager of the British Toilet and Perfumery Co., has acquired the business of the Kredendar Co., manufacturing chemists and toilet specialists, 24 Chilworth Street, Paddington, London, W. 2.

Notes on Books.

Paracelsus,

who has been discredited as a chemist, seems to be coming into his own as a magician, or as what Mr. Swainson, in his little *brochure*, "Theophrastus Paracelsus" (William Rider & Son, Ltd. 1s. 3*d*. net), calls a "Christian occultist," a title (he says) more appropriate to one whose mysticism was a compound of faith and of knowledge gained by researches into "the hidden arcana of Nature" than that of mystic pure and simple. His doctrines did not originate with him, for they were all implied in the "ancient hermetic formula," "as it is below, so it is above": man is a microcosm or epitome of the universe; to know man is to know Nature, and *vice versâ*, since everything is one and has its origin in "one Eternal Unity." His doctrine of signatures, his astrology, his alchemy, his theory of disease, his magic, his "necromancy," are all inherent in and proceed from this formula, and we are invited to believe that, like him, we have in it the key of the universe, by which he was led to his discoveries and performed his cures. It was his own magical powers which, by bringing him into closest relation with the "essence of things," made these possible. If by magic we mean genius, this is doubtless true enough, but Mr. Swainson means something much more than this by it; magic, for him, is a positive, objective thing, at once the "greatest of sciences and an art," the first requirement for the study of which is a "knowledge of natural science in its highest sense." There can be no question that Paracelsus was the foremost pioneer of science in his own day, but his learning, so to speak, went to his head; it intoxicated him in a much more hurtful fashion than the wine he is said to have drunk so inordinately. Is there here a lesson for the scientists of to-day? One need not attach much importance to Mr. Swainson, but is it not a fact that some of our scientists are indulging in dreams and extravagances not unlike those of Paracelsus? Something very like magic, not to say necromancy, seems to be in the air; science now, as in his day, is making immense strides; is it possibly pushing beyond its goal into regions where reason finds it difficult to breathe and sanity is in danger?

Mr. W. H. Hudson,

in what is perhaps the most delightful of his many delightful books, "Nature in Downland," leaving for awhile the birds which are the chief feature of this as of so many of his works, devotes one whole chapter to the flora of the downs, the wonderful richness and variety of which excite his wonder. These are not fully apparent to a casual observer, for many of the flowers are so small and low-growing as to escape the eye that does not search for them, but Mr. Hudson's statement that "in the space of one square foot of ground a dozen or twenty or more species of plants may be counted" will not surprise those who are familiar with the district. Nor is it peculiar in this respect. I once gathered close on eighty species of minute flowering plants in the course of an afternoon's stroll from Pen-y-gwryd to Capel Curig (four miles) without straying more than a few yards from the roadside, and this was in August. Mr. Hudson, I am glad to see, shares my fondness for the milkwort, which, however, does not seem to be a favourite with our poets, as I know but one or two who mention it. He notes the fact that the blue, the white, and the pink are not found very near together, though all may occur on the same hill. The blue is very much the commonest of the three, and in many places it only is met with; the Pass of Llanberis, for instance, is blue with it, but I do not remember to have seen the other two there; in other places I have seen all three growing nearer together than Mr. Hudson seems to think they do, though never, I believe, in the same patch. The apparently arbitrary way in which some flowers choose where to pitch their "magic tents" has often puzzled me. In a large country parish, very rich in its flora, that I know well, the blue milkwort is found in great plenty in two different spots nearly two miles apart, but, so far as I have observed, nowhere else. In the same parish one of the white saxifrages (I cannot say which) grows profusely in one field and in no other; the windflower is abundant in two or three contiguous fields, but is not found elsewhere; and the yellow English chrysanthemum grows in two other contiguous fields only. The rarer grass of Parnassus and *Andromeda polifolia* are both found in great plenty on two moors that border this parish, but not both on the same moor, and neither of them on another that combines distinctive features of both.

An Allusion to Alcohol

in a recent article by M. Bidez, of the Royal Academy of Belgium, on the "Liturgy of the Neo-Platonic Mysteries," seems to show that we have been wrong in attributing the discovery of alcohol to the Arabs. M. Bidez relies upon Hermann Diels ("Die Entdeckung des Alcohols," Berlin, 1913) for the statements that alcohol was distilled in the alembics of the Alexandrians, that the procedure employed by them is described in a Latin text derived from a collection analogous to those of the alchemists of the fourth century, and that the Christian writer who, about 230 A.D., composed a "Refutation of all Heresies," in book iv., chapter 36, of that work mentions this same recipe in a list of the various magical feats practised by pagan priests of the theurgic cults to which Neo-Platonism owed so much. According to this author, the hierophants of these mysteries showed themselves in a kind of transfiguration, making a little spirit of wine blaze on their heads. This, if correct, throws the discovery of alcohol many centuries back from the thirteenth, to which it has commonly been assigned. It gives it, too, a religious significance, such as M. Bidez gives to alchemy, the "sacred ark," closely allied to theurgy, by which was demonstrated the essential oneness of all things, the doctrine that every substance can be sublimed into something else in an ever-ascending scale, until we arrive at the Absolute itself.

A New Book by Mr. Conrad

is an event which must interest everyone who reads; and his latest, "The Rescue" (Dent & Sons, 1920, 9s.), is one of the greatest things, if not the very greatest thing, he has yet produced. It is the story of the events of some ten days in an obscure corner of the Malayan archipelago, but the principal figures in it are of such an epical grandeur that time and place become insignificant: all that matters is the conflict which rages between the great personages so strangely thrown together, and the catastrophe to which they are hurried by a power beyond their control. The shadow of their fate broods heavily over the whole story. Many of those upon whose action or inaction this catastrophe depends are but shadowy figures, dimly seen in the background, but they are made as real to us as the rest. Such is the dreamy, vacillating Belarab, the chief of a powerful tribe, who never actually comes into the story at all: the dependent chief, Daman, is more vividly presented, and one of the most splendid scenes in the book is the one in which he figures most prominently. The most sympathetic of these native figures are the dispossessed chieftain Hassim and his sister Immada, upon the whole perhaps the most finely conceived and heroic, and certainly the most romantic, of all the *dramatis personæ*, not excepting Captain Lingard himself. He, however, is incontestably the greatest of all the great-hearted English sea-rovers depicted for us by Mr. Conrad, and his story is the most truly tragical. The other European actors in the drama are drawn with complete mastery and with the least possible expenditure of words—the egregious Shaw, the smart young seaman Carter, the unspeakable Travers, the knightly d'Alcacer, and that wraith of a man, Jörgenson. Of Mrs. Travers, one speaks with suspended breath. Why did so magnificent a woman act as she did? Simply because she was what she was: we accept, but cannot explain her. Lingard forgave her, and we do the same, at least we men; women will find it harder, being of the same sex. Needless to say the style of the writing is noble, and the land- and sea-scapes superb.

Reviews of Books.

Cocoa and Chocolate: Their History from Plantation to Consumer. By Arthur W. Knapp, B.Sc., F.I.C., etc. 8¼×5 in. Pp. 210. 12*s.* 6*d.* (London : Chapman & Hall, Ltd.)

This is a noteworthy addition to the literature of cocoa (if the term may be applied to a work which makes no pretension to be more than a plain account of its subject) by an expert already known as an authority on cocoa, and at present research chemist to Cadbury Bros., Ltd. Mr. Knapp avowedly writes for the general reader, and avoids all unnecessary technical details, though aiming at the inclusion of as much information on all points of importance or interest as "covers lightly but accurately the whole ground, including the history of cacao, its cultivation and manufacture," and much else relating to the trade in cocoa, its values as a food and beverage, and statistics of its consumption. In this he has succeeded admirably, and his readers will accept his statement that the book, though short, has taken a long time to write. The reviewer, indeed, may be disposed to quarrel with him on that account. He has so packed his book with information conveyed in the briefest possible form that further condensation is out of the question, and to convey an adequate idea of its contents the whole text must be quoted. Exception being made of the illustrations, of which there are close upon 100, many of them occupying a full page, there is hardly a page in the book that does not contain some statement of fact necessary to be known by anyone who would master the subject, and the illustrations really illustrate the text and add greatly to the interest of the narrative. Mr. Knapp rarely comments upon the facts he has to tell, and when he does so it is with the authority of one fully conversant with his subject. The only chapter which tempts a non-expert to criticism is that dealing with the history of cocoa, which is somewhat sketchy, not to say perfunctory, and this confessedly owes much to a previous work by the late Richard Cadbury. It is not until he comes to matters within his own knowledge that Mr. Knapp really grips us. This is in the second chapter, in which the cacao tree and its cultivation are described. The original home of the tree is Venezuela. With diffidence we venture to ask whether Mr. Knapp's implied denial that it is indigenous anywhere else is well founded. Old travellers speak of the "cocoes" of different regions differing widely in character—those of Costa Rica, Guayaquil, Caraccas, for example; Mr. Knapp himself admits these variations, and we do not see how it can be certainly known that they all originated in one and the same place. The two chief varieties are known as Criollo and Forastero, of which the former is the more esteemed. It flourishes in the neighbourhood of Caraccas, and the fact no doubt accounts for Captain Dampier's preference for Caraccas "coco" (as he spells the name). The description this old voyager gives of its cultivation and preparation for the market is curiously like Mr. Knapp's, considering the time that has since elapsed and the progress of science. Mr. Knapp throughout his book very properly uses the form *cocoo* when speaking of the trees, the pod, or the bean; that of *cocoo* when speaking of the powder manufactured from the roasted bean. The confusion between the two (so widespread) is rather curious, since *cacao* is properly a word of three syllables, whereas *cocoa* has but two. *Cacao* is the Spanish form of the Mexican *caca-uatl*, caca-tree; *cocoa* is from *coco*, which appears to have been of European origin, *coco* being a Portuguese word signifying a grinning face, and cognate with the verb *cocor*, to grin. This is quite inapplicable to the cacao pod. *Chocolate*, again, is from the Mexican *chocolatl*. Chocolate is defined by Mr. Knapp as any preparation of roasted cacao beans without abstraction of butter. The most interesting part of the preparation of the bean for food is its fermentation. The original intention of this was to get rid of the pulp in which the beans are embedded in the pod. By fermentation it runs away, first as alcohol, and afterwards as an acid liquor, leaving the beans ready for drying. The fermentation does not extend to the beans, but it has the effect of greatly improving their colour, aroma, and flavour, though how it does this is not yet explicable.

Commercially, cocoa has made great strides of late years in most of the countries in which it is now cultivated, extending almost literally "from China to Peru." The increase in Western Africa, and particularly on the Gold Coast, is astounding. In thirty years the export of beans from the Gold Coast has increased from nothing to 40 per cent. of the world's total production. Next in order as producers come Brazil, Ecuador, San Thomé, San Domingo, Venezuela (to name only the more important), the last named, the original home of the cacao, now contributing only 5 per cent. of the world's supply, the reason for this decline being, says Mr. Knapp, the fact that the chief Venezuelan industry has for many years been the making of revolutions. The beans vary in quality not only from being of different species, but according to the locality in which they are grown and the treatment they receive. Those of Guayaquil are thought by many dealers to be naturally the best, but they are not as a rule so well fermented as some others. Trinidad is said to have contributed most to "the knowledge of scientific methods of cultivation and preparation," and Venezuela is noted for beans of "the finest criollo type." According to a table of prices obtained for the produce of different countries, none of these, however, ranks among the highest, being all beaten by such new sources as Ceylon, Java, and Samoa. There seems to be room for considerable variety of opinion on such points as these; some of the statements made and opinions quoted are hardly reconcilable with others. Mr. Knapp does not, of course, minimise the food-value of cocoa. Compared with it, tea and coffee are nowhere; beef ranks much below it; and in energy-giving power three only of all the foodstuffs compared with it are of equal value with chocolate, which in some respects surpasses them all. It must be added that these statements are not made as his own, but are quoted from other writers, such as Snyder and Sherman. Speaking from personal experience, we are inclined to think that Mr. Knapp exaggerates the digestibility of cocoa, but this no doubt is variable and depends largely upon the mode of preparation. The by-products (so-called) of the industry have a chapter devoted to them, of which several pages are given to cacao butter. It is a mistake, we are told, to suppose that this never turns rancid, but properly treated it will keep good for years. Cacao shell yields a valuable manure and makes excellent cattle-food. The book concludes with chapters on adulteration and the world's consumption of cocoa. A word of praise must be given to its get-up.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration. See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade-marks Journal," September 29, 1920.)

"Superphosphates Engrais U F" on device of wheel and wing ("U.F." disclaimed); for superphosphates for manures (2). By Union Espagnole de Fabriques d'Engrais, 86 Rue de St. Lazare, Paris. 403,091.

"Cresineol"; for chemicals (2) and for medicinal chemicals (3). "Little Fanny Ficolax," with device of girl in cap and apron; for internal medicines (3). By The British Drug Houses, Ltd., 22-30 Graham Street, City Road, N. 1. 404,310 311; 405,394. (Associated.)

"Febrisum"; for all goods (3). By S. H. D., M.A., A.M., and F. W. Ward, and L. A. Fisher, 50 Exeter Road, Nottingham. 394,365.

"Visil"; for medicinal chemicals (3). By F. W. Hampshire & Co., Ltd., Silk Mill Lane, Full Street, Derby. 399,342. (Associated.)

"Alpha"; for medicines (3) and for perfumery, etc. (48). By D. Rossheim, 4 Fox Court, Gray's Inn Road, London, E.C. 1. 405,599 600. (Associated.)

"Ipecopax," "Intestopax," and "Toxopax"; for medicines (3). By Sandoz Chemical Works, 60 Fabrikstrasse, Basle, Switzerland. 406,118 121 122.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Candelilla Wax.—Two Mexican *Euphorbiaceæ*, *Pedilanthus pavonis* and *Pedilanthus aphyllius*, yield a wax known as candelilla wax, which is obtained by immersing the stems in boiling water and collecting the wax, which floats on the surface. The yield is about 3 per cent., and in view of the fact that this wax has recently been found in commerce and mistaken for a sophisticated sample of carnauba wax, Farcy (Ann. fals. et fraudes, p. 97, 1920) undertook an examination of candelilla wax, which yielded the following results:

Specific gravity	1.001 to 1.002
Melting-point	64° to 65°
Free acids	18 to 19
Total acids	66 to 67
Iodine index	20 to 21
Hydrocarbons	33 per cent.

Manganese in Iron Salts.—The fact that manganese is present in a number of vegetable and animal tissues, and in the human blood, in which, according to Bertrand, it plays an important rôle as an oxydase, induced E. Maurin (Répertoire de Pharm., No. 2, 1920) to investigate a number of official iron salts for their content of manganese. Some of his results are summarised in the following table:

	Content of Manganese	
	Maximum per cent.	Minimum per cent.
Reduced iron	0.40	0.07
Ferrous carbonate	0.30	0.08
Ferrous sulphate	0.25	0.02
Iron ammonium citrate ...	0.15	0.01
Iron glycerophosphate ...	0.20	0.03
Iron and potassium tartrate	0.10	0.01

Test for Acetylsalicylic Acid.—V. Arreguine and E. D. Garcia (Ann. Chim. Analyt., No. 2, 1920) describe a new test for acetylsalicylic acid, based on its interaction with resorcin, leading to the formation of β-methylumbelliferone, a body which even in a very dilute alkaline solution possesses an intense blue fluorescence. The test is applied as follows: 0.1 to 0.2 gram of resorcin is mixed with 2 or 3 c.c. of a solution of acetoacetic ester in concentrated hydrochloric acid in a test-tube. The mixture is heated to boiling for a few minutes, and then allowed to cool, a small amount of water is added and the mixture is rendered slightly alkaline by the addition of solution of ammonia; in the presence of acetosalicylic ester a blue fluorescence appears. This test permits the recognition of acetylsalicylic acid, and its derivatives, in solutions in hydrochloric acid containing 0.00001 gram in 1 c.c., and this reaction is a specific one. It can be applied for the detection of acetylsalicylic acid in urine.

Oleum Dericinatum.—Keulemans ("Pharm. Weekbl.," June 26, 1920) gives the following method for the preparation of this oil: Castor oil is gently warmed in a distilling flask until all the water is driven off, and then heated to about 300° C., until 10 per cent. of the oil has distilled over. The distillate is a yellow, mobile oil. The residue in the flask, which has a pronounced acid reaction, is shaken with alcohol (50 per cent.), to which a few drops of phenolphthalein solution have been added, together with liquid ammonia, until the aqueous layer exhibits a pronounced pink coloration. The mixture is allowed to stand overnight, whereupon the aqueous layer is poured off, and the residue heated on the water-bath until the alcohol has been removed. The product is similar in consistency to castor oil, but of a more pronounced yellow colour, and is insoluble in alcohol (90 per cent.), but soluble in petroleum ether. A combination of menthol 10, eucalyptol 20, and ol. dericin. 50 is prepared by dissolving the menthol and eucalyptol by the aid of gentle heat in the oil, and is then filled in ampoules which are sterilised at 120° C.

Synthesising Male Fern Constituents.—Extract of male fern contains, as active principles, a number of derivatives belonging to the class of butyric esters of phloroglucin, of which aspidinol possesses a benzol ring, albaspidin and flavaspidic acid a diphenylmethane structure, and filicic acid that of trimethylmethane. With the exception of pomegranate, all other taeniacides also contain derivatives of butyric acid, or of isobutyric acid. Karrer (Helv. Chim. Acta, 1919, p. 466) succeeded in producing synthetically a number of these derivatives, such as phlorobutyrophenone (2-4-6 trioxyphenylpropylketone), phloroisobutyrophenone (2-4-6 trioxyphenyl isopropylketone); and 2-4 dioxy-6-methoxy-*m*-tolyl propylketone, to which the author gave the name of isoaspidinol, in view of the fact that aspidinol is 4-6 dioxy-2-methoxy-*m*-tolyl-propylketone. The physiological tests proved that whereas the natural constituents of male fern increase in activity with increasing complexity of structure, the synthetic products showed an opposite behaviour: the derivatives possessing a single ring are more active than the diphenylmethane derivatives.

Practical Notes and Formulas.

To Use Henna.

Several methods of using henna as a hair-dye have been given in the *C. & D.* at various times. The following is the process given by Mr. B. H. Hoffstein in the "American Journal of Pharmacy":

About 200 grams of henna is used for one application. This is divided into two portions. With portion No. 1, an aqueous infusion is made, using one pint of boiling water. This infusion must be used while still hot, and is applied with a brush. With portion No. 2, make a moderately thick paste with water. Apply to the hair and hold in position with a towel wrapped round the head. Allow to remain thirty minutes. Then rinse the hair in tepid water. A recolouring is necessary within about thirty days.

Depilatory.

A correspondent of "The British Medical Journal," II., 1920, p. 418, recommends as a depilatory equal parts of barium sulphide and zinc oxide mixed with sufficient water to form a thick paste. The directions are as follows: Rub this paste on the lip or chin and leave it on until it causes a slight smarting (one or two minutes); then wash off with water. Apply some soothing ointment. The hair can be rubbed off in a short time—say, ten minutes. The first application is sometimes not sufficient, so that a second or even a third may be necessary. It is better to go slowly than risk wounding the skin by leaving the depilatory on too long the first time.

Preparation of Emetine Hydrochloride.

Dr. Juan L. Ague ("Boletin Farmaceutico," Lima) asserts that the emetine hydrochloride of commerce is sometimes not a pure product, but contains a certain amount of cephaëline and psychotrine, to which the local irritant action on injection is attributable, and in addition has a less powerful amœbicide action than the pure alkaloid. He indicates the following method for preparing the pure salt:

Two hundred grams of powdered ipecacuanha-root is exhausted with a mixture of 800 c.c. of ether and 400 c.c. of chloroform; after a few hours the mixture is shaken and 160 c.c. of 20 per cent. solution of ammonia added, and the whole allowed to stand for three hours. After adding 160 c.c. of distilled water and allowing to stand the liquid is decanted, treated with 4 per cent. hydrochloric acid, rendered alkaline by the addition of 20 per cent. solution of ammonia, whereupon it is extracted with 200 c.c. of ether to which a few c.c. of chloroform have been added. The ether is removed by distillation, and the residue—emetine—is treated with solution of caustic soda, which dissolves the cephaëline and psychotrine; the pure emetine is extracted by means of ether, and the hydrochloride is formed by the action of 4 per cent. hydrochloric acid on the pure alkaloid.

A licence has been issued by the Board of Trade to the British Cutlery Research Association under the conditions laid down in the Government scheme for the encouragement of industrial research.

Marriages.

Bullen—Bennett.—At All Saints' Church, Brixton, S.W., on September 25, Frederic Edward Bullen, M.P.S. (H.M. Prison Commission, ex-R.A.M.C., attached I.M.S.), to Clarice, eldest daughter of Mr. S. Bennett, Hackleton.

Rogers—Davies.—At St. Paul's Church, Lampeter, on September 18, William Stephen Rogers, chemist and druggist, second son of Mr. H. Rogers, Picton Place, Narberth, to Mary, only daughter of Mr. Joseph Davies, Globe Temperance Hotel, Narberth.

Whiffen—Foot.—At St. John's, Putney, on September 20, by the Rev. W. J. Margetson, assisted by Canon Thurston Rivington, Noel Hardy Whiffen, youngest son of Mr. T. J. Whiffen (Whiffen & Sons, Ltd.), of Cerris House, Putney, and Barn Rocks, Aldwick, Sussex, to Mary, younger daughter of Mr. and Mrs. W. H. Foot, of Carlton Road, Putney.

Willies—Martin.—At Hindolvestone Church, Norfolk, on September 28, Frederick William Willies, M.P.S., only son of the late Mr. William Willies, "Park View," Mansfield, to Hilda Mary, only daughter of Mr. James Martin, Hindolvestone.

Deaths.

Forbes.—On September 24, Mr. Robert Taylor Forbes, chemist and druggist, 48 Castle Street, Stockport, aged fifty-five. Mr. Forbes carried on business in Stockport for many years, and was highly esteemed in the town and district. He was keenly interested in pharmaceutical affairs, and served on the local board of guardians. The funeral took place at Cheadle on September 28.

Giles.—At 110 Harcourt Street, Sheffield, on September 17, Mr. Frederick Giles, chemist and druggist. Mr. Giles, who qualified in 1898, was for some time with Boots, Ltd., at 652 Staniforth Road, Darnall.

Higginson.—At Bolton, Lancs, recently, Mr. James Higginson, secretary to George Dutton & Son, wholesale druggists, 25, 27, and 29 Crown Street, aged fifty-seven. (See p. 54.)

Johnson.—At "Ferndale," 31 Galpins Road, Thornton Heath, on September 27, Mary, wife of Mr. Fred L. Johnson, chemist and druggist (Allen & Hanburys, Ltd.).

Kneen.—At Croydon, on September 27, Mr. George Francis Kneen, chemist and druggist, aged seventy-nine. Mr. Kneen was in business at 141 Anerley Road, London, S.E., for many years; he retired, owing to ill-health, in 1914.

McAuslane.—Recently, Mr. Robert McAuslane, chemist and druggist, Bridgeton, Glasgow. Mr. McAuslane, who qualified in 1890, was for many years with Boots, Ltd.

McLeod.—At 12 Knockbreck Street, Tain, on September 17, Mr. John Peter McLeod, chemist and druggist, aged forty-nine. Mr. McLeod was a native of Tain, where he had experience in his early days with ex-Provost Fowler. He succeeded the late Bailie D. G. Ross in business several years ago, and was at one time a member of the town council.

Newey.—At Marston Green, Birmingham, on September 21, suddenly, Mr. Jonathan Newey, chemist and druggist (Jonathan Newey & Son, chemists, 337 Summer Lane), aged sixty-nine. Mr. Newey was registered as being in business before August 1, 1868. His business previously belonged to his father, and was established by his grandfather more than a century ago. Mr. Newey was a prominent member of the Wesleyan Church, and was widely known as a local preacher. He is survived by a widow and five sons, one of whom will continue the business. The funeral took place at Witton Cemetery on September 25.

Robinson.—At Stamford, on September 23, Mr. Silas Robinson, wholesale druggist, St. Mary's Street, aged seventy. Mr. Robinson carried on business in Stamford for forty-four years. He was for some time a member of the town council, and was the first President of the local tradesmen's association.

Stratton.—At 24 Nutwell Street, London, S.W. 17, on September 14, Mr. William Stratton, chemist and druggist, aged eighty-three.

Personalities.

Mr. F. Boothroyd, Ph.C., Blackpool, was elected a member of the town council on September 24 by a majority of 917 votes over his opponent.

Mr. W. S. Curphey, F.I.C., has retired from his position as Chief Inspector of Alkali, and has been succeeded by Dr. T. Lewis Bailey, Ph.D., F.I.C.

In "The London Gazette" of September 21 it is announced that Mr. Solomon Liffschitz, "chemist and pharmacist," 26 Fieldgate Street, London, E., has assumed the surname of Liff.

Mr. William P. Evans (chairman of Evans Sons Lescher & Webb, Ltd.) and Mr. C. A. Hill (chairman of The British Drug Houses, Ltd.) are taking a golfing holiday together at Harlech.

Mr. John C. Boot and Mr. J. Greenwood, directors of Boots Pure Drug Co., Ltd., Nottingham, sailed for New York on the White Star liner *Olympic*, leaving Southampton on September 29.

Mr. H. Roy Cox, youngest son of Mr. Arthur H. Cox (chairman of Arthur H. Cox & Co., Ltd., Brighton), won the 80-yards swimming championship (junior) at Brighton on September 25, his time being 65⅘ seconds.

At the sitting of the Royal Court of Jersey, on September 25, Mr. Rowland Thursby, chemist and druggist, having produced the certificate of qualification of the Pharmaceutical Society of Great Britain, was granted permission to practise as a chemist in the Island.

Mr. J. F. Gray, of Evans, Gray & Hood, 13 Fish Street Hill, London, E.C. 3, has been seriously ill. We are glad to hear, however, that an improvement has taken place in his condition, and, although his illness still gives rise to anxiety, we trust the improvement will be maintained, and that his many friends will be able to welcome him back in the near future.

Traffic in Cocaine.—Investigations into the disappearance of quantities of cocaine and morphine from the British Army medical stores at Calais have, according to a Reuter telegram dated September 24, resulted in six arrests. Three of the prisoners are French and three English. The drugs are stated to have been sold in cafés in Calais, Boulogne, and Paris.

Chemistry of the Thyroid Secretion.—Herzfeld and Klinger report the results of experiments on tadpoles which apparently demonstrated that thyroid extract from which all traces of iodine had been removed displayed the same biologic action as if the iodine had not been extracted. They regard this as testifying that the iodine content of the thyroid secretion has nothing to do with its biologic action.—*Swiss Medical Journal.*

"The Care of Children."—In a recent issue we reviewed the third edition of this book by Colonel Robert J. Blackham, C.B., D.S.O., M.D., Ph.C. We now learn that a new edition has been called for and will be issued shortly. The new edition has been thoroughly revised, much enlarged, and in part re-written. The book has been largely used in connection with child-welfare centres at home and in India, and will be found a trustworthy guide for the pharmacist called on to advise an anxious customer with regard to her offspring. It is published by the Scientific Press, Ltd., 29 Southampton Street, Strand, London, W.C.

Trade Notes.

Chamois Leathers and products made from chamois are specialties of John T. Barradell, 33 Markington Street, Moss Side, Manchester.

Raoul Frères, Terminus Chambers, 6 Holborn Viaduct, London, E.C. 1, have been appointed sole selling agents for Burger's Digestive Salt.

Lysolid is the name applied to a solid form of lysol which is advertised in this issue by Pattinson & Mackie, Ltd., Albion House, 59 New Oxford Street, London, W. 1.

A caution regarding inferior casein preparations is given in the advertisement of the British Casein Co. (1911), Ltd., 24 Great Dover Street, Borough, London, S.E. 1.

Emulsifiers.—H. T. Boothroyd, Ltd., Bootle, gives particulars of the single-process emulsifiers made by the company. These are ten-gallon machines, motor- or belt-driven.

Robartes, Ltd., Dyer's Buildings, Holborn, London, E.C. 1, invite applications for particulars of the perfumes they make suited for Christmas trade. An advertising campaign is commencing in the Press, dealing with Diadem Wax and Decoltene.

De Luzy Advertising.—W. H. Calnan & Co., 30-32 Ludgate Hill, London, E.C. 4, giving an illustration in their announcement in this issue of the new luminous sign which is being exhibited in London streets as an advertisement for Poudre De Luzy.

Kay's Linseed.—An alteration is announced in the prices of Kay's Linseed Compound. The revised prices are given in the advertisement of Kay Brothers, Ltd., Stockport. Chemists, on application, may obtain new price-tickets for affixing to existing stock.

Mr. Cicero S. Clark, cachet specialist, 12 Richmond Road, London, W. 2, has shown us specimens of his new "dry closing" cachets, which shut like a willow box and can be used without any form of closing-machine. They are, apparently, as securely fastened when shut as cachets damped in the ordinary way, and are quickly manipulated.

Sanoid Wound Lotion.—Cuxson, Gerrard & Co., Ltd., Oldbury, send us a sample of Sanoid Wound Lotion, which they put up as an antiseptic for use in factories, mines, schools, and in the house. The lotion is stated to be a solution of boriodide of phenyl, and is put up in 8-oz., 10-oz., 20-oz., and 40-oz. bottles enclosed in cartons. The labels give directions for use as a wound lotion, gargle, mouth-wash, and nasal douche.

Cox's Toilet Articles.—Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, send us particulars of new articles they are placing on the market. The first is a new packing for thymol toothpaste—collapsible tube in carton, with tasteful labels. This is adapted for an own-name preparation. The other samples are perfumes—Real Sussex Roses and Real Sussex Violets—with leather-capped corks and bottles, which give the appearance of good value. The perfumes are pleasantly reminiscent of roses and violets.

Quin-Quenna.—Thomas Christy & Co., 4, 10, and 12 Old Swan Lane, Upper Thames Street, London, E.C. 4, call our attention to a plan for pushing the sales of Quin-Quenna which has been adopted by one of their customers. An ornamental jug is placed in the window with a packet of Quin-Quenna attached to the handle. In front is a notice bearing the words, "These two alone will positively make an ordinary head of hair wonderfully beautiful at a cost of 6*d*." It is an idea which other chemists might like to adopt.

Martindale's Extra Pharmacopœia.—It will be remembered that in our Special Number we announced the publication of the new edition of Martindale's Extra Pharmacopœia, obtainable for 27*s*. from H. K. Lewis & Co., Ltd., 136 Gower Street, London, W.C. 1, and W. Martindale, 10 New Cavendish Street, London, W. 1. The demand increased enormously, but, owing to present-day economic conditions, the supply could not be maintained at the level desired. It has now been possible to complete all orders, and in future supplies of the book can be had by return of post.

Jules Lang & Son, Charlton Works, Charlton Place, Islington, London, N. 1, call attention in their advertisement to the fact that they have at all times a minimum of about 10,000 cases of glassware ready for delivery from their London depôts, in addition to stock held at various provincial centres. An informal visit to Messrs. Lang's headquarters paid recently by a *C. & D.* representative afforded a convincing demonstration that this claim is not an idle one. Piles of cases and crates reached from the floor to somewhere above the gallery level, and from the galleries themselves to an average level of a few inches below the roof. A stroll through a second depôt close at hand proved to be quite a pedestrian feat. Samples of every kind of glassware stocked are to be seen in the showrooms at Charlton Works.

Monsanto Products.—The Monsanto Chemical Works, St. Louis, U.S.A., and 62 London Wall, London, E.C. 2, send us a catalogue of their chemical products. This is a beautifully produced booklet, containing illustrations of the various works and particulars of the chief fine chemicals, intermediates, and heavy chemicals made there. Each page of the catalogue has particulars of a separate chemical, the following being an example:

Acetyl Salicylic Acid.

Aspirin—

1: 2-C_6H_4.O.CH_3CO.COOH = 180.06.

Used as an analgesic and antipyretic, and as a specific in acute rheumatism. Used by tablet manufacturers, pharmaceutical houses, patent medicine manufacturers, etc.

Monsanto Specifications:

White, odourless powder.
Free of sulphates, chlorides.
Free of salicylic acid, or only faint trace.
Melting point: 133-135° when inserted in heating medium at 130°, and heated at the rate of 1° per minute.
Aspirin is not yet official in the U.S.P.
Our product conforms with the specifications of New and Non-official Remedies, and the British, Japanese, and German Pharmacopœias.
British pharmaceutical melting point: 133-135° C.
Japanese pharmaceutical melting point: 135° C.
German pharmaceutical melting point: about 135° C.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

B/259. Violio (oakleaf) for corns
S/179. Harmise brand saccharin
G/209. Puttman's "Turknit" washing squares
G/229. Gentianose and Gentiopicrin (stocks)
M/219. Etabat clinical thermometers

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C. 4

Decorated tin boxes, W/229
Electro-nuretone, L/279
Hed-eez, A/229
Ingluvin, S/259
Melloids, C/239
Nutresco tonic wine, H/239
Sodium morrhuate, W/279
Sunbronze, H/229
Thermal bath cabinets, M/259
Tinker's dog mixture, S/259
Union Jack corn paste, C/239
Wooden medicine chests, B/259

APPRECIATIONS.

From a well-known manufacturing house in the North:

"Please allow us to take this opportunity of thanking you for the information you have been kind enough to give us from time to time."—(179/19.)

From a firm of subscribers in the Midlands:

"We are obliged to you for the information *re* ——. The promptness with which this was received testifies to the very great value of your Information Bureau."—(134/31.)

Observations and Reflections.

By Xrayser II.

The Vigorous Letter

of Mr. Henry J. Morgan and Mr. G. F. Leighton's address at Sheffield on the Proprietary Medicines Bill are admirable contributions to the discussion of the legislative enactments with which we are threatened, but I submit that the time for such discussion has gone by and the time for action come. The Pharmaceutical Society does not and, as Mr. Morgan says, probably cannot afford us the protection we need. Occasionally—as, for instance, in the case of the Dangerous Drugs Act—it is stirred into action by some stimulus from outside and effects a little modification of measures calculated—I might say designed—to injure us; but normally it is too apathetic, or too busily occupied in the chase of the will-o'-the-wisps of which your correspondent speaks, to do us any substantial service. Most of us see this, the Council itself is half-conscious of its own impotence, yet we take no steps to protect ourselves. We talk, and talk, and talk, and meanwhile the floods are rising and we build no barrier against them. We are waiting for the result of the test case. The Society may profess to be, but the trade knows better, knows very well that whatever the result of that case it will not do away with the necessity for an independent and fully representative Association of the whole trade. The functions of an examining and licensing body, restricted by a charter, cannot be combined with those of a trade-protection society.

I Commend this Subject

to the consideration of the Local Associations whose Winter Session is just beginning, but I confess to having little hope in them. The Associations have in too many cases allowed themselves to become creatures of the Society. They have been so doped with Society opiates as to have little native force left in them. I rarely speak with an individual pharmacist who does not profess agreement with my views, but in association the individual seems to lose himself, to be diffused in smoke (literal smoke it may be) whose "soft chameleon breathings" are lost in air. It is the same with the Federations of which so much was hoped, and the reason is the same; they are all dominated by the Society, tied to its apron-strings, fed from its bottle, and able to run in its go-cart. As I write this there comes to my hand the capital article on "Federation, Limited," over the initials "J. H." in "The Script," every word of which is pregnant with the one truth, that only "an independent federation of chemists and druggists on trade-union lines" can save us, and the Society itself, from shipwreck. "J. H." does not say this in so many words, but his meaning is unmistakable; this limited federation will lead to a catastrophe; "the idea of an independent federation" should be pushed with all our might.

The Pharmaceutical Society of Ireland

may not be "the licensing body *for* the United Kingdom," but the Irish Pharmacy Act was passed by the British Parliament and is part of British law. It is, therefore, an anomaly that the Irish qualification is not accepted in England, or, to say the least, that there is no sort of reciprocity between our Society and the Irish Society in the matter of examinations. The fault seems to lie with us, for the Irish Society makes concessions to us that we refuse to them. Perhaps our Society thinks that theirs, being Irish, would naturally be content that the "reciprocity should be all on one side," though the precedent referred to in that phrase is against such a supposition. The attitude of our Society in this matter is the more strange since we have admitted apothecaries' assistants to registration without examination.

The Report

of the Ministry of Health, which you dealt with recently, gives a more roseate account of the campaign against venereal diseases carried on at the treatment centres than that of "Lens," to which I referred in the note on "The Crime of Cowardice" a week or two since. He admitted a certain amount of success, but maintained that the efforts made do not keep abreast with the spread of the evil. A Harley Street doctor, writing in pursuance of the subject, now declares that if it is the fear of a hostile public opinion which deters the authorities from allowing the sale of disinfectants by chemists, as "Lens" recommends, this fear is groundless; that, excepting a number of bishops and other clergy, such a step would be welcomed by the public generally. There certainly seems to be reason for believing that our exclusion from this service militates greatly against the attempt to suppress these diseases.

The Advertisement as Literature

is the theme of some amusing and instructive notes in the "Marginalia" of a recent number of "The Athenæum." The writer has a high opinion of the literary qualities necessary to successful advertising. It is easier, he declares, to write ten passably effective sonnets than one widely effective advertisement, and allowing for the ironical intention of the writer it may be admitted that there is some truth in this. But the qualities required for the writing of sonnets are very different from those required for successful advertisement. The problem presented by the sonnet is indeed "child's play" as compared with that of the advertisement, but it is more difficult for a grown man to play like a child than to advertise like an American "booster," and of the two the child is nearer to the secret of literature. The prime literary quality required by the advertiser is intelligibility; the art—the only art—he really needs is that of "getting there." But for the poet, the man of letters generally, the journey is more important than the goal. His object is not to convey us from place to place, but to take us a "joy ride," and to communicate joy is infinitely more difficult than to arrive anywhere. The latter, however, is the advertiser's object, and he has to take the shortest cut to it. Consequently, the literary impulse is a snare to him. The writer in "The Athenæum" sees this; "any trace of literariness in an advertisement" is, he says, fatal.

Sir Ray Lankester

has been speaking some home truths to members of the British Association. Their annual meetings are, he says, losing their value by combining the character of a friendly picnic with that of a serious conference on matters of public importance. When he adds that personally he prefers the picnic it may safely be supposed that he has a very poor opinion of these meetings as aids to the advancement of science. I suspect that what he says of the British Association applies with at least equal force to the British Pharmaceutical Conference. A friend who attended the recent Conference in Liverpool waxed very sarcastic in his account of the attendance at the purely scientific meetings as compared with that at the social ones. I dare not give his figures, but they were rather startling to one who had always understood that the Conference was primarily intended for the advancement of pharmacy. No doubt it serves this purpose to a considerable extent, but apparently this is in danger of being side-tracked by a round of pleasures.

The Etymology of "Liverpool"

was mentioned in your columns at the time of the Conference, and the opinion was expressed that Mr. Robert Gladstone, who derives the name from the Norse, and explains it as Shelter-pool, had settled the question. I thought at the time that this derivation was improbable, as it does not account for "Litherland," which obviously has the same origin as "Litherpool." Mr. H. Harrison, whose own derivation (see his "Place-names of the Liverpool District") I must have had at the back of my mind, now writes to "Notes and Queries" that Mr. Gladstone's suggestion will not do. "It forces a meaning upon the supposed Norse original which it will not bear; such a name as "Shelter-pool" is in itself improbable; and it does not account for "Litherland." Mr. Harrison refers the first element in the name to "lither," a rush.

"SANITAS" EMBROCATION.
Invaluable for
ACHES, SPRAINS & STIFFNESS
THE ATHLETE'S BEST FRIEND
Of all Chemists, and
The "SANITAS" Co., Ltd., LONDON, E.14

REYNOLDS & BRANSON, LTD.,
Grand Prix LEEDS. Turin 1911
PHARMACEUTICAL PREPARATIONS.
Tinctures, Ointments, Pills, Tablets, Suppositories.
Standardised and Clinically Tested Galenicals, &c.
SURGICAL INSTRUMENTS.
X-Ray and Electro-Medical Apparatus, Dressings, &c.
AERATED BEVERAGES.
Sparkling Phosferrade, Puritzer, Dry Ginger Ale, &c.
SCIENTIFIC APPARATUS.
(Chemical, Physical and Photographic) Balances and Weights.
CHEMICALS FOR TECHNICAL AND ANALYTICAL PURPOSES.

MEDICINAL CAPSULES
WHOLESALE & EXPORT
ESTABLISHED 25 YEARS.
Inquiries solicited.
D. W. BULL, 4 Churchill Road, HOMERTON, E.9.

TELEPHONE: MAYFAIR 5015 (4 lines)
MEMO. NO. 22
AMPOULES in COLOURS
a speciality of
JOHN BELL & CROYDEN Ltd.
WHITE, AMBER, BLUE, MAUVE, ETC.
100 DISTINCTIVE DESIGNS.
SODA & "NEUTRAL" GLASS.
Enquiries to—
50 WIGMORE ST., LONDON, W.1.
TELEGRAMS: CROYBELACO, WESDO, LONDON.

ART OF DISPENSING. (9th Ed.) 8/, by post 8/9.
VETERINARY COUNTER PRACTICE. 6/-. by post 6/9.
CHEMIST'S DICTIONARY OF MEDICAL TERMS. 3/6, by post 3/10

FRENCH AND ALL FOREIGN
Proprietary
MEDICINES
Wilcox, Jozeau & Co.
49 HAYMARKET, LONDON, S.W.
Export and other Buyers should apply for a List.
Foreign Prescriptions dispensed for Pharmacists.

PHOSPHATIC MATERIALS
ACID PHOSPHATE
PHOSPHORIC ACID
GLUES & GELATINES
ANIMAL CHARCOAL
PRESCOTT & CO.,
Rutland Mills, Hulme, MANCHESTER

BRITISH
ABSOLUTE ALCOHOL
Jas. Burrough Ltd. D.1 Cole Distillery, Hutton Rd. LAMBETH, S.E.11.

Editorial Articles.

Chemists' Rights Endangered.

We are glad to observe that chemists are becoming more interested in the question of opposing the passing of the Proprietary Medicines Bill in its present form. Up to now the view taken has been that the Pharmaceutical Society is doing all it can to safeguard the interests of chemists, and it will come as a shock even to those who can never see anything wrong in the actions of the Society to be told that practically nothing has been done so far in the direction of obtaining modifications of the objectionable features of the Proprietary Medicines Bill. A Special Committee of the Council of the Pharmaceutical Society was appointed in August to consider what steps should be taken to oppose the Bill, but, so far as we know, nothing tangible has been done. Moreover, owing to the holiday season, it is possible that no meeting of the Special Committee has been held. Parliament meets early this month, and if, as has been stated, the Bill is to be pressed through both Houses as speedily as possible, there is but little time left to consider what shall be done to protect the interests of the drug-trade, which are threatened by several of the provisions of the Bill.

We have reasons for stating our belief that it is to the interest of certain parties in official circles that the present position of drift shall be persevered in until it is too late. It will soon be too late, these people hope, for effective opposition to be organised.

Several instances have been brought to our notice which warrant us in making this assertion. We publish this both as a warning to chemists who are trusting the Pharmaceutical Society to take appropriate steps to oppose the Bill and as a reason why the Special Committee should be spurred into taking action promptly. It should be remembered that the Ministry of Health is now run by doctors in the interests of the medical profession rather than for the public benefit. The House of Commons should realise that the Ministry of Health, on its medical side at least, is an annexe of the General Medical Council and of the

British Medical Association. This will explain why, step by step, the business of a chemist and druggist is being curtailed by legislation and by regulations of the Ministry of Health. The Proprietary Medicines Bill is one of the steps, the insincerity of the Bill being proved by the fact that it does not seek to regulate the comparatively few disreputable proprietary medicines that exist, but aims at ruining the legitimate trade in packed medicines carried on by chemists and other proprietary-medicine manufacturers. The next step in the campaign is to endeavour to take away the whole of chemists' privileges under the Medicine Stamp Acts and in the sale of simple remedies to the public. That there can be no doubt about this; we refer our readers to the report of the discussion in the House of Lords. We may also mention that the British Medical Association recently passed a resolution asking the Council of the Association "to consider what steps can be taken to deal with undue advertising of drugs for self-medication." Those who have studied the tactics of the medical profession will appreciate what this resolution means. Previous steps have been as follows: First the instigation of the shamelessly unfair "Report as to the Practice of Medicine and Surgery by Unqualified Persons in the United Kingdom," which was the excuse for the appointment of the Select Committee on Patent Medicines, over which a chairman presided who had from the first obviously made up his mind on the side of the medical men. Advantage was taken of the war to obtain the monopoly for doctors in the treatment of venereal disease and to prevent chemists even from supplying a properly-labelled disinfectant to prevent venereal infection—that would not have profited the medical profession. It now appears that during the time the nation was straining every muscle and nerve to win the Great War for the preservation of civilisation a Government Department was wasting man-power in drawing up the Proprietary Medicines Bill in the interests of the medical profession, the excuse being that to carry out the recommendations of the Select Committee would be a contribution towards the reconstruction of the country after the war. The hollowness of this excuse is shown by the fact that the Select Committee's report was in print before the war broke out. Such an excellent opportunity for assisting still further to establish a complete medical monopoly in this country could not be resisted, however, by the Ministry of Health. The chief points in which the Proprietary Medicines Bill infringes the rights of chemists are in compelling the disclosure of trade secrets, in prohibiting the sale of medicines used in the treatment of certain diseases, and in curtailing the privilege enjoyed by chemists from time immemorial in the unfettered sale of "known, admitted, and approved remedies." The proposed expropriation of trade secrets in proprietary medicines is not aimed at protecting the public against possible dangers of poisoning from strong remedies. If it were it would have sufficed either (1) to have required the disclosure of drugs named in the Poisons Schedule in cases where the quantity in the medicine was over the recognised doses, (2) the names of any other active drugs of which an agreed list could have been drawn up, or (3) the declaration of the presence of alcohol beyond an amount necessary for the preservation of the mixture, or in cases where the medicines could be employed as a beverage (at present strictly regulated by the licensing laws). The disclosure, however, that is required is "full particulars of the ingredients of the medicine and the proportions in which those ingredients are used," obviously aimed at destroying any trade secrets that may exist in proprietary medicines. These trade secrets are as much industrial property as trade-marks, and in many cases of greater value. The schedule of diseases for which it is to be illegal to supply drugs in packed form is the next objectionable feature of the Bill. Are the diseases named in the schedule to be regarded as incurable for all time? Already owing to the accidental circumstance that a member of the House of Lords uses a deafness appliance, the sale of which would have been illegal if the Bill had passed, "deafness" has been removed from the schedule, but further curtailment of the schedule is required. As we have stated before, the principle is wrong which limits the choice of the remedies which persons afflicted with chronic diseases may take. The Bill will compel those, for example, who suffer from fits or epilepsy to pay doctors' fees week by week when a comparatively inexpensive proprietary bromide mixture is the palliative required. Amenorrhœa due to simple causes is generally treated at home with Blaud's pills or proprietary medicines of quite a legitimate kind. If the trouble is due to pregnancy these remedies cannot bring on the courses, nor can the remedies referred to harm a pregnant woman. Is it in the interests of the public that a cancer patient should be prevented from obtaining a disinfectant which happens to be effective in keeping the cancer free from odour, or that a tuberculous person should be prevented from obtaining readily malt and oil or cough-mixture? The last point which we have to deal with is the curtailment of the privileges of chemists in the sale of "known, admitted, and approved remedies." This will happen unless the definition in the Bill of "proprietary medicines" is altered or **a saving clause is inserted conserving the rights of chemists.** These rights have existed from time immemorial. The resolution of the House of Commons, upon which the first Medicine Stamp Act, that of 1783, was founded, conserved the rights of those who had served a regular apprenticeship to a chemist or druggist for the reason that the sale of legitimate medicines to the sick was not a fit matter for taxation. This privilege has continued to the present day, and there are thousands of "known, admitted, and approved remedies" sold as remedies for simple ailments by the legitimate sellers of medicines. It is now proposed to curtail, and presently to abolish, this right. A point which we have not touched upon is that a fee is to be charged for depriving chemists of their trade secrets, and the advice of a well-known man in the drug-trade is that this shall be a heavy one. Chemists who put up a dozen stamped proprietary medicines will appreciate what it means to have to pay sixty or seventy pounds for registration with perhaps other sums annually for renewing the registration. We think we have shown the necessity for immediate action in this matter. The Council of the Pharmaceutical Society meets on Wednesday and Parliament a few days afterwards, so that there is but little time left. Will chemists and chemists' associations therefore **write or telegraph at once to the Pharmaceutical Society** that the Society is expected to take active steps immediately to preserve chemists' rights in the manufacture and sale of proprietary medicines?

Italy's Chemical Trade in 1919.

The Italian Minister of Finance recently published detailed statistics of Italy's imports and exports during the past year, the values of which are an eloquent illustration of the enormous increase in prices which has taken place during and since the war. Whereas the total

value of all goods imported into Italy amounted to 3,666,655,575 lire in 1913, and to 5,548,821,720 lire in 1915, in the past year the total value of imports aggregated 16,522,869,112 lire, an increase of 485,487,855 lire over the imports of 1918. Turning to Italy's exports, we find that these figured with a total value of 2,591,925,727 lire in 1913, and represented a value of 2,219,688,085 in 1915. During the past year the exports amounted to 5,189,552,140 lire, thus showing a very important increase, amounting to no less than 1,884,813,779 lire, over the exports of 1918. Thus, the adverse trade balance—*i.e.*, the excess of imports over exports, which amounted to 1,074,727,558 lire in 1913, has grown to the stupendous figure of 11,333,316,972 lire, and it affords conclusive evidence of the enormous financial difficulties by which Italy is faced. In this figure for imports, raw materials for industrial purposes amount to 5,698,588,504 lire, closely followed by the colossal sum of 5,318,408,566 lire for foodstuffs. In the list of Italy's suppliers, the United States head the list with 7,401,387,201 lire, while Great Britain follows, having supplied goods to Italy to the value of 2,332,989,494 lire. While France is Italy's best customer, Great Britain comes second, the imports from Italy, nearly half the value of those exported to France, figuring with 666,216,816 lire. The total value of chemical products, medicinal preparations, and perfumery imported into Italy during the past year aggregated 604,219,400 lire, while the exports amounted to 252,330,551 lire. Among the exports the following articles of pharmaceutical interest may be mentioned, the amounts being stated in kilograms:

	1913	1919
Oil of orange ...	48,105	105,915
Oil of bergamot ..	65,095	194,520
Oil of lemon	456,905	757,759
Tartaric acid	2,846,200	2,542,500
Cream of tartar * ...	348,600	348,700
Citric acid	220,500	897,200
Calcium citrate ...	5,755,700	5,458,500
Carbon disulphide ...	864,000	488,500
Sulphuric acid ...	150,500	625,900
Sulphur	551,558,900	120,451,400
Casein	500	74,800
Boric acid	1,242,500	1,695,100
Mercuric chloride ...	90,000	29,500
Phosphorus, white and red	nil	99,000
Calcined magnesia, pure	1,000,000	258,900
Thorium, cerium, zirconium salts ...	nil	1,425
Medicinal products ...	192,600	56,600
Compound medicines	128,520	555,400
Alkaloids	100	1,161
Quinine salts	27,186	554
Perfumery	255,100	103,600

* In 1915 exports had increased to 1,455,500 kg.

Use of Armorial Bearings.

A London chemist informs us that he has received a visit from the local supervisor of Inland Revenue in regard to the use of armorial bearings on his note-paper. The armorial bearings referred to are a device which recalls the arms of the Pharmaceutical Society. It is as well to remember that the use of arms on note-paper or memorandum forms requires a licence of one guinea, which we find some chemists pay. A licence is not required by any person in trade for armorial bearings or devices in the nature of armorial bearings used in connection with matters relating merely to his trade, as on billheads and labels, or on the shop-front; but this exemption does not extend to any trader who uses armorial bearings or such devices on paper for general correspondence or otherwise than in connection with his trade only.

The Value of a Royal Charter.

The "Dioptric Bulletin" published recently the text of the petition to the Privy Council for the grant of a Charter of Incorporation, together with a draft of the Charter. The Charter has been refused. The "Dioptric Bulletin" thus comments on the value of a Charter:

There exists the vaguest of ideas as to what a Charter really is. There are many who believe that it is some monopoly with greater powers than even an Act of Parliament, and who use the word "Charter" in the same sense as the old lady used the word "Mesopotamia." A Charter is nothing more nor less than a patent of respectability. One has only to read the concessions asked for in the Charter printed in this number to realise this. It is not a patent of respectability for all other Societies, but just the one Society or the body making the application.

It is a sort of Accolade or Knighthood given to a body of persons instead of an individual. Charters are not easy things to obtain. The procedure is to present the Petition and the proposed Draft to the Lords of the Privy Council, who recommend his Majesty the King to either grant it or refuse it, rarely, if ever, giving any reasons in the case of rejection.

There are many Societies who make application to the Privy Council for a Charter to be granted, but nearly all without exception are refused.

We understand that as a rule one is granted about every five years, and then only to Societies possessing in their own right large funds, influence, and activities that should be for the benefit of the public and not for themselves.

It will be seen therefore that to speak of obtaining a Charter for all opticians is not possible, as it applies only to some particular body.

It is added that an Act of Parliament is a different matter. This would be generally restrictive, provide for penalties in the case of wrongdoing, and limit the practice of optics to certain qualified people.

Coming Events.

Monday, October 4.

London Medical Exhibition, Central Hall, Westminster, London, S.W. Daily until October 8, from 12 noon to 6.30 P.M.

Birmingham Pharmaceutical Association, Grand Hotel, at 1.15 P.M. Luncheon to Mr. E. T. Neathercoat on his first visit as President to Birmingham. Tickets (6s. each) from Mr. F. Smith, 221 Soho Road, before October 2. The inaugural meeting of the Pharmacy Class will take place at the Technical School, Suffolk Street, at 3 P.M. Address by Mr. Neathercoat.

Wednesday, October 6.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council meeting. Opening of the School of Pharmacy at 3 P.M. Inaugural address by Major E. Saville Peck.

Manchester Pharmaceutical Association, Midland Hotel, at 6.30 P.M. Whist-drive and concert. Tickets (5s. 6d. each) from the Secretary or any member of Council.

Veal Federation (London Branch), Anderton's Hotel, Fleet Street, London, E.C. A two-days' meeting will be opened at 2.45 P.M. Speakers, Mr. H. Miller, and others.

Bradford Pharmacists' Association.—The annual dinner of the Association will be held in the Great Northern Victoria Hotel on October 15.

National Association of Women Pharmacists (London Group).—A whist-drive and social, in aid of the Pharmaceutical Society's Benevolent Fund, will be held at the Progressive Pharmacy Club, Arundel Hotel, Arundel Street, Strand, London, W.C., on October 15, at 8 P.M. Tickets (3s. 6d. each) may be obtained from Miss Andrews, 285 Harrow Road, W. 9; Miss Borrowman, 17 The Pavement, Clapham Common, S.W. 4; Miss Braithwaite, 17 Bloomsbury Square, W.C. 1; or Miss Fordyce, 26D Clanricarde Gardens, W. 2. Morning dress.

Perfumery (including perfumed soap) is among articles the importation of which into Norway is prohibited.

Standardising Pharmaceutical Assay Processes.

During the discussion on the determination of the active principles of heroic drugs at the Brussels Conference in 1902, the Swiss delegates proposed that in every instance where a definite content of alkaloid or glucoside was required, the method of estimation should be stated. This proposal was, however, turned down, and in the International Convention no methods of assay are included. Professor Tschirch, with his assistants, decided to undertake in the pharmaceutical institute of the University of Berne a critical study of the different methods of assay incorporated in the various Pharmacopœias, with the object of establishing the best method. His definition of the best method demands that it shall comply with the following requirements: (1) not costly—*i.e.*, shall not demand the use of a large amount of drug; (2) can be rapidly carried out; (3) and (4) be sufficiently delicate without being too sensitive; (5) applicable without the aid of costly apparatus.

The results of these investigations have now been published in the "Schweizerische Apotheker-Zeitung" (1920, Nos. 35, 36, and 37), which are summarised in the following notes.

Nux Vomica.

The Keller-Fromme method proved to be the best. It is applied as follows: 7.5 grams of powdered nux vomica is macerated for half an hour, shaking vigorously from time to time, in a medicine-bottle with a capacity of 150 c.c., with 50 grams of ether, 25 grams of chloroform, and 5 grams of solution of ammonia (10 per cent.). Thereupon 50 grams (=5 grams of nux vomica) of the ether-chloroform solution is filtered through a covered, smooth double filter of 10 cm. diameter into an Erlenmeyer flask of 200 c.c. capacity. The ether and chloroform are removed by heating on a water-bath, or by distillation, the residue is dissolved in 2 c.c. of chloroform, 20 c.c. of ether, 20 c.c. of distilled water, and 5 c.c. of N 10 solution of hydrochloric acid and a few drops of iodeosin solution are added; the excess of acid is titrated with N 10 solution of potassium hydroxide. The number of cubic centimetres of acid required to neutralise the alkaloids multiplied by 0.0364 indicates the content of alkaloids in 5 grams of nux vomica, and multiplied by 20 yields the percentage present. This method has the drawback that titration is carried out with a cloudy aqueous solution, in which the transition to a faint rose colour is somewhat difficult to observe. Two parallel tests should be carried out at the same time.

Extract of Nux Vomica.

The same method is also recommended, using 1.25 gram of extract, and filtering off 60 grams of the ether-chloroform solution=1 gram of extract.

Tincture of Nux Vomica.

It is recommended to apply the same test, adding 1 gram of dilute sulphuric acid to 50 grams of tincture and evaporating on an asbestos sheet to 10 grams. The residue is then mixed with 10 grams of ether, 25 grams of chloroform, and 5 grams of solution of ammonia, and 50 grams (=33.33 grams of tincture) is filtered through cotton-wool, and employed for carrying out the determination.

Ipecacuanha Root.

The method described in the Hungarian Pharmacopœia proved the most satisfactory. It is based on the determination of both emetine and cephaëline, taking an average molecular weight of 241. To carry out the test, 5 grams of powdered ipecacuanha is shaken in a well-corked Erlenmeyer flask with 75 grams of ether for fifteen minutes, whereupon 4 c.c. of solution of ammonia (10 per cent.) is added and the mixture vigorously shaken continuously for fifteen minutes. Set aside for fifteen minutes, then filter off 60 grams (=4 grams of powder) into a flask with a capacity of 200 c.c., provided with a glass stopper. Attach a Liebig condenser to the flask and distil until a dry residue is obtained. The latter is twice treated with 5 c.c. of ether, and the ether evaporated each time. On cooling, 30 c.c. of ether saturated with water and 10 c.c. of N 10 solution of hydrochloric acid are added. After solution has been effected, add 90 c.c. of water and a few drops of solution of iodeosin. Shake and set aside for five minutes, agitating gently from time to time. Titrate with N 10 solution of sodium hydroxide until the aqueous layer assumes a faint rose tint. The difference between the amount of c.c. of N 10 solution of hydrochloric acid and N 10 solution of sodium hydroxide solution multiplied by 0.0241 indicates the amount of alkaloids present in 4 grams of powder.

Aconite Root.

The method of the Swiss Pharmacopœia, also adopted by the Russian, is recommended. For aconitine the molecular weight of 645 was adopted.

[This method consists essentially in extracting 12 grams of powdered root with 120 grams of ether, 5 c.c. of solution of ammonia, and 5 c.c. of water, filtering the ethereal solution through cotton-wool, and weighing the filtrate. Remove the ether by distillation, dissolve the residue in 5 c.c. of absolute alcohol, add 10 c.c. of water, 3 drops of hæmatoxylin solution, and 30 c.c. of ether, then titrate with N 100 solution of hydrochloric acid until the aqueous layer assumes a red-brown tint. Add 30 c.c. of water and complete the titration, shaking frequently, until the aqueous layer has a lemon-yellow colour. 1 c.c. of N 100 hydrochloric acid=0.00645 gram of alkaloids.—Editor, *C. & D.*]

Pomegranate Bark.

The following modification of the Keller-Fromme test is recommended.

Seven grams of powdered dried pomegranate bark is well shaken with 70 grams of ether in a medicine-bottle with a capacity of 150 c.c., 7 grams of solution of sodium hydroxide (15 per cent.) is added, and the mixture macerated for thirty minutes, shaking frequently. The ethereal solution is then filtered through cotton-wool, 5 to 10 drops of water added to the cloudy liquid, and the whole well shaken, then set aside. When completely clear, 50 grams (=5 grams of bark) is poured off into a medicine-bottle of 150 c.c. capacity, previously carefully cleansed with hydrochloric acid and then with water, 5 c.c. of N 10 solution of hydrochloric acid and 5 c.c. of water are added, the mixture is then transferred to a separator, and shaken up with two portions of 10 c.c. of water. The aqueous layer is filtered off, about 10 c.c. of ether is "layered" on to it, and a few drops of iodeosin solution are added. It is now titrated with N 10 alkali until a rose coloration appears. The number of c.c. of N 10 alkali solution required is subtracted from 5, and indicates the amount of alkaloids present; 1 c.c. of N 10 solution of hydrochloric acid=0.01475 gram of alkaloids. The average molecular weight of pelletierine, isopelletierine, pseudopelletierine, and methylpelletierine is assumed to be 147.5.

Hydrastis Canadensis.

The following volumetric method of estimating the amount of hydrastine was elaborated, and is stated to be more rapid of execution, and to yield more exact results than the gravimetric methods described in the Pharmacopœias. A further test to establish its usefulness is recommended. It is applied as follows:

Six grams of powdered root is macerated with 120 grams of ether and 5 grams of solution of ammonia (10 per cent.) for thirty minutes in a medicine bottle, with a capacity of 250 c.c., shaking frequently. Add 5 to 6 grams of water, shake, and after the liquid has become clear, filter off as much as possible—about 100 grams. Shake the filtrate with 5 grams of water. After settling, pour off 80 grams (=4 grams of root) of the ethereal solution, remove the ether by evaporation, wash the residue three times with 5 c.c. of ether, evaporating the ether each time, and finally dissolve the residue in a mixture of 30 c.c. of ether and 10 c.c. of N 10 solution of hydrochloric acid. Titrate with N 10 solution of potassium hydroxide

using ethyl-orange 0.5 per cent. (5 drops) as indicator; 1 c.c. $N/10$ solution of hydrochloric acid = 0.0353 gram of hydrastine. (Ethyl orange proved more useful than methyl orange as indicator.)

Liquid Extract of Hydrastis.

The best results were obtained by the methods indicated in the German and Swiss Pharmacopœias, and by C. Loretz. The volumetric method described above was employed with the following adaptation : 7 grams of liquid extract of hydrastis is mixed with 7 grams of water and the mixture evaporated to about 6 grams in an Erlenmeyer flask of 200 c.c. capacity. On cooling, add 1 gram of hydrochloric acid (12.5 per cent.) and sufficient water to produce 14 grams; 0.5 gram of talc is added, and the whole well shaken, whereupon 10 grams (=5 grams of liquid extract) is filtered off into a flask, 4 grams of solution of ammonia (10 per cent.) and 75 grams of ether are added, and the mixture well shaken. After adding 1.5 gram of tragacanth the mixture is shaken until the ethereal liquid is quite clear; 60 grams (=4 grams of liquid extract) of the ethereal layer is filtered off, and treated as described above.

Digitalis.

A thorough investigation was undertaken of the various methods for the chemical as well as the physiological assay of digitalis, but it proved impossible to obtain a complete agreement between the results of both. It was found that the total glucosides of digitalis are soluble in acetone, and a method was elaborated which marks a distinct improvement on that of Keller. Twenty-eight grams of digitalis is macerated for about twelve hours with 100 grams of ether. Physiological tests have demonstrated that the active principles of digitalis are not soluble in ether, the latter merely extracts the chlorophyll, fat, and resins from the leaves. The ether is removed by distillation. The dried leaves are now extracted for three hours with 280 grams of absolute alcohol, shaking frequently. Two hundred and seven grams of the alcoholic filtrate is mixed with 25 grams of water, and the mixture evaporated to about 25 grams. This residue is diluted with sufficient water to produce 222 grams; 25 grams of solution of lead acetate is added, and after shaking, filter. One hundred and thirty-two grams of the filtrate is mixed with a solution of 5 grams of sodium sulphate in 8 grams of water, and allowed to stand over-night, whereupon 130 grams of the clear liquid is removed by filtration. The filtrate is almost colourless, a sign that practically all the inert substances have been removed. The filtrate is transferred to a separator, 30 c.c. of acetone is added, and the mixture shaken. To separate the acetone from the aqueous liquid, 25 grams of sodium chloride is added. The acetone solution is shaken up five times, whereupon it is filtered through a filter moistened with acetone into a beaker, and the acetone evaporated. To remove the traces of sodium chloride still present, the residue is dissolved in about 20 c.c. of warm absolute alcohol, and the solution filtered into a weighed glass capsule, and the alcohol evaporated. The amount of residue obtained was 0.035 gram, representing the total glucosides (pandigiton). To obtain this product in a pure form, the residue is dissolved in 3 c.c. of warm absolute alcohol, the solution transferred to a weighed Erlenmeyer flask, evaporated to about 3 c.c., whereupon 50 c.c. of petroleum ether is added. After standing over night, the pandigiton separates out on the walls of the flask; the petroleum ether is now poured off, and the residue dried. It was found to weigh 0.0215 gram.

Areca Nut.

The following modification of the method described in the Swiss Pharmacopœia is advocated.

Twelve grams of powdered areca nut is shaken for fifteen minutes with 120 grams of ether, whereupon 5 c.c. of solution of ammonia (10 per cent.) is added, and the mixture shaken for one hour, then allowed to settle. One hundred grams of the ethereal solution is filtered through cotton-wool into a flask with a capacity of 300 c.c., and the ether is removed by distillation. The residue is dissolved in 5 c.c. of alcohol; 100 c.c. of water and a layer of 1 cm. of ether are added. After adding 5 drops of iodeosin solution, titrate with $N/10$ solution of hydrochloric acid until the mixture is colourless, or add an excess of acid and titrate back with alkali until the rose colour reappears. One c.c. of $N/10$ hydrochloric acid = 0.0151 gram of arecoline.

Drugs Containing Anthraquinone.

These include rhubarb, frangula, cascara sagrada, senna, and aloes. Tschirch's colorimetric method of estimation by comparison with emodin offers the advantage of not requiring the use of a special and expensive colorimeter, and is applicable to all these drugs with the exception of aloes.

Half a gram of the finely powdered drug is distilled for fifteen minutes under a reflux condenser with 50 c.c. of 5-per-cent. sulphuric acid. After cooling, the liquid is shaken up with 50 c.c. of ether and the ether withdrawn; this operation is repeated until the ether remains colourless and yields no longer a red coloration on the addition of dilute solution of potassium hydroxide. The aqueous liquid is now freed from ether and again distilled for fifteen minutes under a reflux condenser, after which it is again extracted repeatedly with 50 c.c. of ether. The various ethereal extracts are collected and shaken with 200 grams of 5-per-cent. solution of potassium hydroxide in water until the latter is no longer coloured red. The alkaline solutions are collected and made up to 500 c.c.; 100 c.c. of this solution is made up to 1,000 c.c. by the addition of water. If 350 c.c. of the latter is diluted to 1,000 c.c. and the dilution held against a sheet of white paper it should exhibit a distinct cherry-red colour of at least the same intensity as that of a 1 : 1,000,000 normal aloes-emodin solution. Benzol may be used in the place of ether.

The normal aloes-emodin solution is prepared by dissolving 0.001 gram of pure dry aloes-emodin, of constant melting-point, in 1,000 c.c. of distilled water containing a little potassium hydroxide.

By this method both combined as well as free oxyanthraquinones are determined.

Aloes.

To determine the free emodin, 1 gram of aloes is dissolved in the cold in 50 c.c. of 30-per-cent. alcohol, and this solution is shaken up with benzol until it no longer gives the oxyanthraquinone reaction. Thereupon the benzol solution is extracted three times with solution of ammonia (10 per cent.), using successively 100, 50, and 50 c.c. of the latter; the ammoniacal solutions are made up to 1,000 c.c., and the latter is compared with the alkaline normal 1 : 1,000,000 emodin solution.

By means of Tschirch's fluorescence test (the colorimetric comparison of a normal solution of borax and aloin 1 : 250,000), Tschirch and Hoffbauer determined the content of aloin in various varieties of aloes, obtaining the following percentages :

Cape aloes, soft, 20 per cent. of aloin.
Cape aloes, dry, 16 per cent. of aloin.
Uganda aloes, 16 per cent. of aloin.
Barbados aloes, 18 per cent. of aloin.
Curaçao aloes, 18 per cent. of aloin.
Socotrine aloes, 8 per cent. of aloin.

London School of Economics.—The calendar of the London School of Economics and Political Science for the session 1920-21 has just been issued (2*s.* 6*d.* net). In addition to preparing candidates for various examinations of the University of London (of which it is a constituent college), the school opens its lectures and classes to students who are not taking a University course, and offers facilities for post-graduate research. Among the subjects covered are "Accounting and Business Methods," "Commerce and Industry," and "Transport," and most of the lectures are available both for day and evening students. The comprehensive character of the provision for study is sufficiently indicated by the fact that in the past session 3,016 students were registered, 955 of these being women. Particulars of the courses may be obtained from the secretary of the School, Clare Market, London, W.C. 2.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Pricing Homœopathic Preparations.

Arrangements have been made with the Ministry of Health to increase the prices paid for homœopathic preparations ordered in Insurance prescriptions. From July 1 the prices allowed for mother tinctures, attenuated tinctures, pilules, and triturations will be at the rate of 1½*d.* per drachm and 2*d.* per dozen for tablets.

Reports from Local Centres.

ENGLAND.

Bolton.—At a meeting of the Borough Insurance Committee, held recently, the following statistical data relating to prescriptions priced for January 1 to June 30 inclusive, were supplied :

No. of Prescriptions	Ingredients Prices	Dispensing-fees	Av. Ingred. Price	Av. Disp.-fee
599,825	12,550*l.* 2*s.* 10*d.*	12,443*l.* 4*s.* 3*d.*	5·02*d.*	4·98*d.*

The clerk reported payment to chemists of June balances, 303*l.* 0*s.* 7*d.*; July advances, 320*l.* 15*s.*; July balances, 286*l.* 18*s.* 3*d.*; August advances, 353*l.* 4*s.* Two additions have been made to the list of persons supplying drugs and appliances.

Devon.—A meeting of the Pharmaceutical Committee was held at Exeter on September 22, Mr. March presiding. The report of the Central Checking Bureau for March was approved. Three complaints as to service on Sundays, Bank holidays, and after closing hours in certain districts were examined. In one case it was considered that the complaints were not justified, and in the second that an understanding should be encouraged between the doctor and the chemist who is alone in a small country town; in the third case, however, it was decided that a more satisfactory rota arrangement should be insisted upon. An improvement in the regulations regarding malaria clinic dispensing was approved of. Messrs. Brown, Foster, and March were elected to serve on the Pharmaceutical Services Sub-Committee for the ensuing year.

London.—At the meeting of the London Insurance Committee on September 23 (*C. & D.*, September 25, p. 86), Mr. G. H. Harris presiding, it was resolved not to act on a recent resolution relating to the increase of the advance payment per script from 6*d.* to 8*d.*

September Drug Tariff.

The following are the alterations for September in the Drug Tariff for England and Wales issued by the Ministry of Health :

Lower.—Acid. citric. pulv., 6*s.* 6*d.* lb.; acid. salicylic., 5*s.* 3*d.* lb.; acid. tannic., 15*s.* 3*d.* lb.; acid. tartaric., 4*s.* 3*d.* lb.; ammon. brom., 5*s.* 8*d.* lb.; ammon. ichthosulph., 4½*d.* oz.; argent. nucleinas, 4*s.* 9*d.* oz.; barbitonum, 3*s.* oz.; calc. lact., 10*s.* lb.; collod. belladon., B.P.C., 1*s.* 2½*d.* oz.; dec. senegæ ex conc., 11*s.* 6*d.* lb.; ext. bellad. liq., 1*s.* 3½*d.* oz.; ext. bellad. sicc., 1*s.* 10*d.* oz.; ext. ergotæ, 18*s.* oz.; ext. ergot. liq., 36*s.* 6*d.* lb.; guaiacol carbonas, 2*s.* 10*d.* oz.; inf. senegæ ex conc., 9*s.* 6*d.* lb.; lin. belladon. meth., 8*s.* 6*d.* lb.; lin. camph., 6*s.* lb.; lin. terebinthinæ, 3*s.* 10*d.* lb.; methyl salicylas, 7*s.* 8*d.* lb.; ol. morrhuæ (Norwegian opt.), 20*s.* gal.; ol. tereb. rectif., 3*s.* 4*d.* lb.; paraldehyd., 9*d.* oz.; phenazon., 2*s.* 2*d.* oz.; phenolphthalein, 1*s.* 6*d.* oz.; plumbi acet., 1*s.* 10*d.* lb.; pot. brom., 4*s.* lb.; pot. permang., 8*s.* 3*d.* lb.; resorcinum, 3*s.* oz.; santonin., 68*s.* 6*d.* oz.; sodii benz. (artificial), 7*d.* oz.; sodii brom., 5*s.* lb.; tab. barbiton., gr. v., 6.1*d.* per doz.; tab. guaiacol. carb. gr. v., 5.6*d.* per doz.; tab. phenacetin., gr. v., 3.3*d.* per doz.; tab. phenolphthalein, gr. i., 1.4*d.* per doz.; tab. santonin., gr. i., 17.9*d.* per doz.; tab. santonin. co., B.P.C., 18.4*d.* per doz.; tr. belladon., 7*s.* lb.; tr. camph. co., 5*s.* lb.; tr. guaiaci ammon., 9*s.* 9*d.* lb.; cotton-wool. 25.5*d.* per 1-lb. packet.

Higher.—Ext. malti, 1*s.* 5*d.* lb.; ferri et pot. tart., 9*s.* lb.; inf. buchu ex conc., 13*s.* 3*d.* lb.; menthol, 4*s.* oz.; pot. acet. (dry granules), 7*s.* 2*d.* lb.; pot. sulphit., 3*s.* 6*d.* lb.; pulv. sodæ tart. eff., 14.3*d.* per doz.; sodii nitris, 3*s.* 4*d.* lb.; syr. scillæ, 2*s.* 2*d.* lb.; syr. tolut., 2*s.* 4*d.* lb.; tab. acetan. co., B.P.C., 2.0*d.* per doz.; tab. calomel. (tab. hydr. subchl., B.P.C.), gr. ii., 1.2*d.*; ditto, gr. iii., 1.5*d.* per doz.; tab. formaldehydi, B.P.C., 1.6*d.* per doz.; tab. phenacetin. co., B.P.C., 4.1*d.* per doz.; tab. salol., gr. v., 2.3*d.* per doz.; tab. thyroid gland, gr. ii., 1.7*d.* per doz.; ditto, gr. v., 3.0*d.* per doz.; tab. trinitrini, 1.5*d.* per doz.; zinci valerian, 3*s.* 3*d.* oz. Bandages: domette, 2½ in. 11.0*d.*, 3 in., 13.8*d.*; ice-bags, check, 40.0*d.*

SCOTLAND.

Drug Accounts Committee.—The report on the work of the Drug Accounts Committee was submitted at the annual conference of Insurance Committees held at Inverness on September 24 and 25. The following is abstracted from the report : The Bureau prepared 16,150 accounts in respect of panel chemists, and these were passed by the Government auditor. During the year 2,965 irregular prescription forms and 2,350 proprietary ingredients were disallowed. With regard to the stock orders supplied to practitioners for emergency use, 1,603 disallowances were made, either because the items ordered were not on the approved list, or because an excess quantity was ordered. Unsigned forms amounted to 2,019, and these were held over. The number of prescription forms dealt with during the year was 2,008,537, at a cost of 104,625*l.* 13*s.* 4½*d.* After referring to the alteration of dispensing-fees, the report goes on to state : In order to ascertain the effect of the increased dispensing-fee, an examination was made of all the prescription forms issued in the Glasgow Burgh Insurance Committee's area during January 1920. It was found that "the average fee in respect of the professional time and skill involved in the highly responsible work of dispensing a National Health Insurance prescription on the basis of the 1920 scale . . . was 5.10*d.*" A special investigation made to ascertain the percentage frequency with which the various medicaments were prescribed showed that mixtures were easily the most favoured method of prescribing, the percentage being 56.8. Powders were next, with 10.88; ointments and pastes, 7.22; and lotions, 4.85. Appliances were ordered with a frequency of 7.43 per cent. There was one proprietary ingredient in every 200 prescriptions. The investigation occupied 1,423 working hours, and the cost will be defrayed by the Scottish Board of Health. The following was given in a comparative statement, including the period from January 1, 1915, to December 31, 1919 :

	Forms Allowed	Value £	s.	d.	Aver. Price d.	Cost per 100 Forms for pricing, etc. d.	Rate of Cost to Value of Prescription %
1915 ...	2,220,219	90,182	10	3	9.74	34.50	3.54
1916 ...	1,938,523	80,451	11	4½	9.96	42.75	4.30
1917 ...	1,805.603	72,753	5	1½	9.67	34.25	3.54
1918 ...	2,001,286	95,848	9	8½	11.49	37.67	3.27
1919 ...	2,008,537	104,625	13	4½	12.50	42.81	3.42

"Jamaica Ginger" is a popular beverage in the United States as a liquor substitute, but National Prohibition Commissioner Kramer promises to take it off the market altgoether. There is to be a rigid withdrawal of alcohol permits issued to proprietary-medicine makers, wholesale druggists, and others.

Vivisection Return.—The official return showing the number of experiments performed on living animals during 1919 was recently published. In no case has a certificate dispensing with the use of an anæsthetic been granted for an experiment involving a serious operation. The number of licences issued was 714, but only about half of these were used.

Adulterations of Fertilisers.—Mr. F. V. Dutton, analyst for the county of Devon, speaking recently at a meeting of agriculturists, mentioned that of several samples of fertilisers and feeding-stuffs which he had analysed, one of fish guano contained 35 per cent. of fine sand, while a manure sold as bone compound had no bone in its composition. Kainit, from Alsace and Lorraine, under Government control, had been found satisfactory, he added.

The British Chemical Trade Association.

The second annual general meeting was held at the Great Eastern Hotel, Liverpool Street, London, on Wednesday, Mr. Wm. Mann, the President, being in the chair. In submitting his report the President dealt at length with the Association's relations with various Government Departments. At the last general meeting he had explained that a good deal of time up to that date had been spent in establishing the organisation and in the registration of the Association under licence of the Board of Trade. The period with which he was now dealing had been devoted to protecting and furthering the interests of the chemical trader, and their efforts had met with much success. They would all remember that last year the Government had brought into force restrictions on the importation of chemicals, dyestuffs, etc. The Association took the matter up at once and made representations to the Board of Trade on behalf of its members and the trade generally. Interviews and deputations were arranged, and finally, when an Advisory Committee was formed to assist the Board of Trade in the issue of import and export licences, the British Chemical Trade Association was granted direct representation on that Committee as representing the merchanting interests of the chemical trade. He believed he was correct in saying that this was the first time in the history of the trade that the merchanting community had received Government recognition, and he thought they would all agree that this was a great achievement on the part of the Association. On numerous occasions applications for licences, which other represented interests desired refused, were fought out and were in the end granted. He had no hesitation in saying that the work performed by the Association in connection with this Committee and the Imports and Exports Licensing Section generally justified, over and over again, the existence of their organisation.

The restrictions on the importation of dyestuffs then in force were governed by a different body. In connection with this important matter the Association, from the very commencement, carried out a strong campaign against the unfair methods adopted by the Government in carrying out these restrictions. Prolonged correspondence and deputations failed to obtain anything approaching satisfaction, and ultimately led to their organising a petition to the Prime Minister. This petition received splendid support for consuming interests, which, he thought, was good proof of the good case they were putting forward. A short time after the petition was presented the Sankey judgment cancelled the matter, and for the time being the question was dropped.

Coming to the present time, when there were only the export restrictions to contend with. These referred chiefly to dyestuffs, and they were all aware of the chief and most objectionable feature of ruling in this matter. He referred to the manufacturer's certificate. The Government laid down the rule that before they would even consider an application for licence to export dyestuffs they must be furnished with a manufacturer's certificate to the effect that the goods were sold by the manufacturer to the applicant for the express purpose of export to a specified destination, and further, that such export would not be detrimental to home supplies. They all knew what had happened under such obviously unfair ruling. The merchant, unable to purchase direct from the manufacturer, was forced to buy on the open market, and because he did so he was refused his export licence. Under the cloak of Government protection the manufacturers were given the opportunity of filching from the merchant his legitimate business. But what had happened? The merchant, finding that he was debarred from exporting from this country, commenced to place his business in the American and other foreign markets. He had no hesitation in saying that these restrictions on foreign trade, for they were nothing less, were driving a considerable amount of trade out of the country. They could not blame the merchant for conserving his business, which had taken him years to build up. There was no reason why he should hand it over—lock, stock, and barrel—to the manufacturer.

For some months, however, continued representations had been made to the Board of Trade, and only quite recently the matter was finally settled and something approaching satisfaction was obtained. A deputation representing the Association was received at the Board of Trade and the matter was thoroughly discussed. The result of that conference had been published to members in the form of a special notice that was passed by the Department for publication. The great interest taken in this matter by the trade generally was manifest by the Press notices to hand, and The Chemist and Druggist of September 4 contained an editorial article favourably commenting on the useful work the Association had performed.

The merchanting trade was now anxiously awaiting news of the Government's proposal to introduce legislation to reimpose import restrictions. The Bill was, in the first instance, to be an anti-dumping measure, but that had been dropped. For a time no news was forthcoming of any further action, but the Association had recently been officially informed by the Board of Trade that it was the intention of the Government to introduce legislation at the earliest opportunity next session to restrict the importations of dyestuffs and certain chemicals. When that "earliest opportunity" would be he should not like to hazard a guess. There was no doubt a division of opinion in the Government, and doubt was expressed as to whether the Bill, if introduced, would successfully withstand the opposition it would undoubtedly meet. This pending legislation had already received the consideration of the Association, and they had been advised by the Board of Trade that in the event of an Advisory Committee being set up to assist the Department in the issue of licences due consideration would be given to the importance of the merchanting interests concerned. The members might rest assured that the Association would continue to watch developments, and that they would be kept fully informed. He would like to say that in all their dealings with the officials of the Board of Trade, as with all the other Departments, they had been received with every courtesy, and although at times they had been compelled to disagree with their views, their relations had been of a very friendly character.

Their Conditions of Sale and Rules of Arbitration had met with general approval, and were now being fairly extensively used. Arbitrations under their rules had been a distinct success. The American chemical trade some time ago had thoroughly discussed these conditions and rules, and the general opinion was in favour of establishing a similar standardised contract for their trade.

Something like a year ago Mr. S. J. C. Mason, who had acted as hon. secretary of the Association since its inception, during which time he had given a great deal of time and worked extremely hard, tendered his resignation to the Committee. Mr. O. F. C. Bromfield, who for some time had been acting as assistant secretary, was appointed general secretary, and had since carried out the duties of that office.

Discussing the position created by the formation of the Chemical and Dyestuff Traders' Association, the President said that the British Chemical Trade Association had never been desirous of there being two Associations to protect the interests of the merchant, because they knew that in the conflict that must inevitably arise between two organisations having the same objects and attempting to accomplish exactly the same thing without any co-operation, the members of both must suffer, and the trade would be better without them. Having this in mind, the Committee of the British Chemical Trade Association approached the leading members of the other Association before it was formed, and begged them, in the interests of the trade, to join the existing Association. Rightly or wrongly, they decided not to come in, but the Board of Trade since then had made it quite plain to the members of both Associations that they should meet and discuss the position. A meeting had been held of three members of the Executives on either side, and he believed, after a very frank discussion of the position, that they seemed to have found common ground, and was confident that if the Committee of the Association was permitted to continue the negotiations it would be possible to effect a fusion of the two Associations. They could be quite certain that the Committee would not in any way sacrifice the interests of the Association. They were out for a fusion which was honourable, and one which recognised the part which the British Chemical Trade Association had played during what he regarded as the most testing time in the history of industry and commerce. Before any definite decisions were come to the matter would be referred to an extraordinary general meeting of the members.

The report was adopted, as also were the accounts. The retiring members of Council, including the President, were re-elected, and votes of thanks were accorded the chairman and secretary.

Biak-metal is a new combination of copper and zinc, discovered by an Italian engineer. It is stronger than steel and less corrosive than copper, and is intended to be used as a substitute for those metals.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, Sept. 30.

There is a slightly better tone in business this week, principally on export account, but home trade continues very restricted, consumers buying from hand-to-mouth only. Prices continue to move in favour of buyers, and among drugs we note a decline in Curaçao aloes, balsam Peru, copaiba, and tolu, ipecacuanha, ergot, and Belgian valerian-root. Rhubarb maintains its price for fine Shensi. Dill-seed and lycopodium are dearer. Coriander, caraway, and anise are steady. Nux vomica is still very scarce. Buchu appears to be cleared at the source, and London stocks are likely to be exhausted before new crop is available. Among pharmaceutical chemicals prices of many items still show an easier tendency, with sellers open to "near bids," although probably the goods could not be replaced at present selling prices. Potash and sodium bromide are lower. Milk-sugar and pure theobromine are decidedly cheaper. Citric and tartaric acids and cream of tartar have further declined. Hexamine, phenolphthalein, and formaldehyde are easier.

Higher	Firmer	Easier	Lower
Camphor oil (Jp. wh.)	Camphor (Jp. ref. slabs)	Aloes (Curaçao)	Benzaldehyde
Dill seed	Eucalyptus oil	Balsam Peru	Citric acid
Lycopodium	Pepper, white	Balsam tolu	Cream of tartar
Spike oil (Spanish)	Petroleum	Cinnamon-leaf oil	Honey
		Citronella oil (Cey.)	Lemon oil
		Copaiba	Lemongrass oil
		Ergot	Milk-sugar
		Formaldehyde	Nutmeg oil
		Hexamine	Potash bromide
		Ipecacuanha	Shellac
		Lime oil (h.p.)	Tartaric acid
		Menthol	Theobromine (pure)
		Phenol-phthalein	Wax, Carnauba
		Saltcake	
		Soda bromide	
		Valerian (Belg.)	

Cablegram.

New York, September 29.—Business is fair, with prices showing a continued downward tendency. Copaiba is cheaper at 57½c. per lb., menthol is 15c. lower at $7.25, and peppermint oil in tins has been reduced to $6.25. Balsam Peru is 10c. lower at $3.50, and antipyrine has declined to $3.75. Vanillin is cheaper at 80c., formaldehyde is lower at 44c., and saccharin at $3.00 per lb. Curaçao aloes has declined to 9c. per lb.

Acetic Acid has eased somewhat, 99 to 100 per cent. glacial in barrels offering at 95*l.* to 100*l.* per ton; 80 per cent. pure can be had at 90*l.* and 80 per cent. technical at 85*l.*

Agar-agar is steady, with sellers of No. 1 Kobe strip at 2*s.* 7*d.* per lb., and No. 2 at 2*s.* 5*d.*

The exports from Japan during June amounted to 54,204 kin, valued at 76,910 yen. During the six months ended June 30 they were as follows:

	1918	1919	1920
Kin...	2,147,109	974,457	642,515
Yen...	2,324,455	1,270,159	1,034,950

Aloes.—Curaçao is tending easier owing to fair-sized arrivals and a reduction in c.i.f. prices, good ordinary offering at 67*s.* 6*d.* per cwt. c.i.f. Spot varies from 85*s.* to 115*s.* per cwt.

The exports from the Union of South Africa during June 1920 amounted to 182,912 lb. (4,368*l.*), against 45,420 lb. (530*l.*) during June 1919. During the six months ended June 30, 1920, the exports amounted to 423,533 lb. (8,887*l.*), against 620,475 lb. (6,443*l.*) for the corresponding period of 1919.

Anise is steady, with business doing in Russian at 87*s.* 6*d.* per cwt.

Antimony.—While home refiners maintain their terms for regulus at 52*l.* per ton for ordinary brands in small lots, at which there is very little business possible, further weakness has to be noted in foreign material. Consumers' interest is lacking, and Chinese to arrive is obtainable down to 43*l.* c.i.f., and crude at about 35*l.* delivered from warehouse and 34*l.* to 35*l.* c.i.f.

Arsenic.—There is little doing, but the tone is firm. Prices for white Cornish range from about 75*l.* to 77*l.* per ton delivered either at Liverpool or London, according to quantity. Offers of Colonial and American arsenic have been heard of, but the quantities in question are limited; the market for such material is nominal at around 70*l.* per ton c.i.f.

Aspirin continues extremely slow of sale at from 4*s.* 9*d.* to 5*s.* per lb. as to quantity.

Balsam Peru is slightly easier on the spot, with sellers at 23*s.* 6*d.* per lb.

Balsam Tolu is about 3*d.* per lb. cheaper, with spot sellers of good bright at 5*s.* 9*d.*

Belladonna is firm, Indian root offering at 2*s.* 6*d.* per lb., and good green leaves at 1*s.* 6*d.* per lb. on the spot.

Bromides.—Potash is offered at 1*s.* 8*d.* to 1*s.* 9*d.* per lb. for small lots of crystals or granular, and quantity at less. Ammon. is 2*s.* 9*d.* and soda 2*s.* 6*d.* per lb.

Buchu.—Recent advices from the Cape state that the market there is now cleared. Apparently the small stock they had on hand, with the exception of six bales shipped to London, has been sold to America. The present stock in London, of all descriptions, including the six bales above mentioned, which are now landing, is twenty-four bales, compared with fifty bales at one period of August. At the present rate of progress the London stock will be all cleared within about six weeks, and as the new crop will not be available for over four months, it would appear that the market will be bare of supplies before long. The exports from the Union of South Africa during June 1920 amounted to 14,950 lb. (7,114*l.*), against 28,636 lb. (7,899*l.*) in June 1919. During the six months ended June 30, 1920, the exports were 87,469 lb. (37,797*l.*), against 112,594 lb. (25,926*l.*) for the corresponding period of 1919.

Cadmium.—There is a fair demand and the market is irregular, some sellers being disposed to do business at about 6*s.* 9*d.* per lb., although importers of American ask up to 7*s.* per lb.

Camphor (Refined).—Japanese refined slabs have a firmer tendency, with spot sales at 6*s.* to 6*s.* 1½*d.*, some asking 6*s.* 3*d.*

The exports from Japan during June amounted to 186,177 kin, valued at 918,309 yen. During the six months ended June 30 they were as follows:

To	1918 Kin	1919 Kin	1920 Kin
British India ...	277,511	25,303	299,392
Great Britain ...	292,443	50,123	112,706
France	23,965	48,813	25,132
United States ...	383,073	920,447	190,198
Australia	62,907	1,633	12,817
Other Countries ...	118,634	44,665	96,339
Kin	1,158,533	1,090,984	736,584
Yen	2,306,704	3,012,571	3,976,740

Canary-seed is firm but trade rather quiet; good Morocco sells at 170*s.* to 172*s.* 6*d.* per quarter, and clean River Plate at 140*s.*

Cannabis Indica valued at 1,657*l.* has arrived from India to London.

Caraway-seed is steady at 40*s.* per cwt. for fair Dutch.

Carbolic Acid is slow of sale at from 1*s.* 1*d.* to 1*s.* 2*d.* per gal. for 39° to 40° C. ice crystals in large bulk packing.

Cascara Sagrada is unchanged at from 98*s.* to 100*s.* per cwt. for two-year old, up to 105*s.* being quoted for old bark.

Cassia Fistula is selling at from 85*s.* to 90*s.* per cwt. on the spot.

Cinchona.—Further particulars of the auction to be held at Amsterdam on October 6 show that the 1,165 packages Java pharmaceutical bark (969 bales and 196 cases) weigh 65,562 kilos. and contain the equivalent of 1,681 kilos. quinine sulphate. The 200 bales Ceylon Succirubra to be offered weigh 4,211 kilos. and contain the equivalent of 116 kilos. quinine sulphate.

Citric Acid is easier, with spot sellers at 3*s.* 8*d.* per lb.

Cloves.—Zanzibar are quiet, with spot sellers at from 1*s.* 7½*d.* to 1*s.* 8*d.* per lb.

Coca-leaves.—Further particulars of the auction to be held at Amsterdam on October 6 show that the 5,677 bales and 1,144 cases Java leaf weigh 375,133 kilos., containing the equivalent of 5,382 kilos. total alkaloids. The average percentage is 1.44.

Cod-liver Oil.—The cod-liver oil market in Norway continues lifeless and without any regular quotation. The exports from Norway up to September 4 amount to 28,834 barrels. Spot (London) holders offer finest non-congealing medicinal oil at about 295*s.*

Copaiba.—B.P. quality is offered on spot at 3*s.* 7½*d.* per lb.

Copper Sulphate.—The trade all round is dull, while no sustained overseas demand exists, and merchants seem able to arrange business with some makers near 40*l.* per ton f.o.b. Liverpool for casks; on the other hand, some business has been done lately up to about 43*l.* Importations from the Continent seem likely to continue small this season, although requirements should be on an enlarged scale later.

Coriander-seed is selling steadily at 21*s.* per cwt. for good bright sound, at 17*s.* 6*d.* to 18*s.* 6*d.* for fair dull, and at 15*s.* 6*d.* for wormy.

Cream of Tartar is about 5*s.* per cwt. lower at 240*s.* net for 99 to 100 per cent. foreign powder. English makers quote 255*s.*, less 2½ per cent.

Creosote (Beechwood) can be bought at from about 8*s.* 3*d.* to 8*s.* 6*d.* per lb.

Dill-seed is dearer, 22*s.* 6*d.* per cwt. having been paid for ordinary East Indian.

Egg Products are quiet. Chinese liquid hen-yolk is offered at 90*s.* per cwt. for old, 112*s.* 6*d.* for new, and at 102*s.* 6*d.* c.i.f. for parcels afloat. Dried yolk on the spot is 9*d.* to 9½*d.*; sprayed whole egg is 1*s.* 9*d.*; and native dried whole, 10½*d.* per lb. spot. *Albumen* is unchanged at 4*s.* 10*d.*, and for October-December shipment 4*s.* 8½*d.* c.i.f. is quoted.

Ergot is easier, with Spanish offering at from 14*s.* to 16*s.* per lb. on the spot as to seller.

Farina is firm, Japanese No. 1 offering at 32*s.* per cwt., with sales at 31*s.* 6*d.* spot. Business in parcels afloat has been done at 31*s.*, and September-November shipment at 30*s.* 6*d.* c.i.f.

Fennel-seed continues in fair request at 33*s.* per cwt. for East Indian.

Fenugreek-seed.—Demand has slackened, but quotations are unchanged at 15*s.* 6*d.* to 15*s.* 9*d.* per cwt. for fair Morocco, according to quantity.

Formaldehyde is easier, 40 per cent. volume offering at 305*s.* per barrel.

Henna.—Powder can be had at 300*s.* per cwt. on the spot.

Hexamine is slightly easier at about 15*s.* per lb. on the spot.

Honey is cheaper, new Jamaica crop canary set, offering at 92*s.* 6*d.*, with manufacturing quality down to 70*s.* Cuban can be had at 75*s.* and San Domingo at 70*s.* per cwt. Fine pale set Californian in cases is offered at 110*s.* Australian in cases is wanted for export, with spot offering at 55*s.* to 60*s.* for fair average quality.

Ipecacuanha is easier, good Matto Grosso being obtainable at 15*s.* per lb., Minas at 15*s.*, and East Indian at 15*s.* 3*d.*, and slightly less for quantity. Cartagena is quoted at 14*s.* per lb.

Kamala, valued at 1,053*l.*, has arrived from India to London.

Kola.—Small sales of good West African quarters are reported at 5*d.* per lb. in Liverpool.

Linseed Oil.—There seems a fairly brisk demand in the North of England, where holders demand prices considerably above those at which business can be done either in this market or at Hull. The market has fluctuated, but the tone has continued steady upon the whole. Some little speculative buying has been attracted in distant positions at over 3*l.* per ton discount. The tone in seed is irregular, due to fluctuations in freight rates. London spot price for oil closed at 82*l.* and Hull at 79*l.* naked.

Lycopodium has become scarce, and the usual sources of supply are without stock; price is nominal at from 18*s.* to 19*s.* per lb.

Menthol.—After the close of our last report the market brightened somewhat, the week closing with spot sellers of Kobayashi-Suzuki at 30*s.* per lb., but 29*s.* 6*d.* has since been accepted.

The exports from Japan during June amounted to 119,827 kin, valued at 1,022,925 yen. During the six months ended June 30 they were as follows:

	1918	1919	1920
Kin	161,615	141,432	268,293
Yen	977,882	1,400,675	4,281,259

Mercury is unchanged, the home demand being very quiet, although some little inquiry has been reported lately from Hong Kong. Quotations vary from 19*l.* up to 18*l.* 10*s.* per bottle, and the tendency seems steady. The American market is very quiet; apart from the parcels reaching New York from the Pacific Coast, certain quantities of Mexican are offering.

Methyl Salicylate is selling at from 3*s.* 10*d.* to 4*s.* per lb.

Milk-sugar is 5*s.* per cwt. lower, finest Dutch powder offering at from 175*s.* to 185*s.* per cwt., according to quantity.

Nux Vomica is still very scarce on the spot, and offers for shipment from India continue few and dear.

Olive Oil.—Finest French edible maintains its previous price of from 23*s.* to 24*s.* per gallon. There has been a fair demand for commercially pure Malaga at 215*l.* per tun.

Opium.—The London market is unchanged, usual 12 per cent. druggists' quality offering at 19*s.* 6*d.* to 20*s.* per lb., with practically no business passing at the moment. Prices in primary markets are easier.

Smyrna, September 4.—The sales this week amount to five cases at 17*s.* 6*d.* to 19*s.*, as to quality. The exchange to-day is piasters 430 per pound sterling for cheque and $0.84 per one Turkish pound. The arrivals are 190 cases, against 685 at same date last year. We are pleased to say that the Greek Regular troops have taken Ouschak, a very important opium centre, so we hope soon, when railway communications are opened, to see more important arrivals on our market.

Smyrna, September 11.—We have to report a drop in prices of about 10*d.* per lb., with sales amounting to 20 cases at 16*s.* 9*d.* to 19*s.* per lb. c.i.f. for 11 to 12 per cent. old qualities. Our exchange continues high—*viz.*, 424 piasters per pound sterling for cheque on London and $0.85 for one Turkish paper pound. The arrivals to date amount to 200 cases, against 690 at same date last year.

Paraldehyde is still offered at the low rate of 4*s.* per lb.

Pepper is quiet, the spot value of fair black Singapore being 6¾*d.*, and the same price is also asked for September-November and October-December shipment on c.i.f. terms. Lampong is 6¾*d.*, Tellicherry 7¾*d.*, and Aleppy 7¼*d.* per lb., all spot. *White* pepper is firmer, with spot sales at 1*s.* 3⅜*d.* to 1*s.* 3½*d.*; September-November and October-December shipment has been sold at 1*s.* 0⅞*d.* to 1*s.* 1½*d.* Singapore has been sold at 1*s.* 2¾*d.*

to 1*s.* 2½*d.*, and September-November shipment has sellers at 1*s.* 0½*d.* c.i.f.

Phenacetin is steady and in more inquiry at about 13*s.* 6*d.* per lb., and slightly less for quantity.

Phenazone is quoted at from 17*s.* 6*d.* to 18*s.* per lb., and slightly less for quantity.

Phenolphthalein is slightly easier, offering at from 8*s.* 9*d.* to 9*s.* 3*d.* per lb., as to quantity.

Potash Iodide.—The exports from Japan during June amounted to 1,725 kin., valued at 14,098 yen. During the six months ended June 30 they were as follows:

	1918	1919	1920
Kin	100,351	53,945	10,814
Yen	625,145	346,778	94,503

Of *crude iodine* 1,899 kin. valued at 9,003 yen, were exported during June, and the exports for the six months ended June 30 were:

	1918	1919	1920
Kin	42,583	13,714	11,155
Yen	263,737	89,153	75,043

Quicksilver.—See under "Mercury."

Rhubarb.—Finest medium to bold round Shensi is selling at 11*s.* 6*d.* per lb. down to 10*s.* for lower grades. Spot sales of rough round High-dried have been made at 6*s.* for good fracture, and good flat High-dried is worth about 10*s.* 6*d.* There have been no arrivals of Canton for some time.

Salicylates.—Salicylic acid, B.P., remains steady, but there is little doing. English makers quote from 2*s.* 9*d.* to 3*s.* per lb. for crystals. Sodium salicylate is also unchanged at from 3*s.* 9*d.* to 4*s.* 3*d.* for powder, as to seller and quantity.

Saltcake has eased, 95-per-cent. white offering at 16*l.* per ton c.i.f.

Shellac is about 30*s.* per cwt. lower on the spot, usual standard TN Orange quality offering at 610*s.*; AC cakey is 550*s.*, GAL 530*s.*, and IG 500*s.* The sales for delivery include October at 565*s.* to 555*s.* to 550*s.*, and December at 540*s.* to 525*s.* to 535*s.* At auction on Tuesday full prices were paid for about 1,258 cases salvage stock ex "Botanist" without reserve, including 325 cases worked free TN, barely fair small broken at 540*s.* to 565*s.*; Becker special, good pale free orange, 695*s.* to 715*s.* Fifty cases common dull dark button sold at 300*s.* to 305*s.* 722 cases Orange, salvage, sound but out of condition, sold without reserve, matted to blocky TN fair at 505*s.* to 580*s.*, blocky to block ditto 430*s.* to 515*s.*, livery matted to block 405*s.* to 420*s.*, also MOS superfine matted to blocky 590*s.* to 595*s.*, blocky to block 555*s.* to 565*s.* 181 cases AC garnet sold, dull hard block 360*s.* to 375*s.* per cwt.

Silver Nitrate.—The price quoted for crystals on September 29 is based on a metal price of 59½*d.* per oz., and is as follows: In quantities of 25 oz., 3*s.* 6¾*d.* per oz.; 50 oz., 3*s.* 6½*d.*; 100 oz., 3*s.* 5¾*d.*; 250 oz., 3*s.* 5½*d.*; and 500 oz., 3*s.* 4¾*d.*

Soda Caustic.—American make, 76 to 78 per cent., is offered by importers at from 34*l.* to 35*l.* per ton on the spot.

Soy.—Good brands of Chinese are offered at 4*s.* 10½*d.* per gal., duty paid; 255 packages have arrived from Hong Kong

Tartaric Acid is cheaper, powder or crystal offering at 2*s.* 7*d.* per lb., and slightly less for quantity.

Theobromine.—The pure alkaloid has sensibly declined, importers offering at from 30*s.* to 31*s.* per lb.; theobromine sodium salicylate is unchanged at 20*s.*

Turpentine.—The warehouse stocks here have been mounting steadily of late, and there is no great eagerness on the part of paint and varnish makers to purchase ahead, in spite of the recent steady upward movement. Although the course of the market is somewhat problematical, dealers here seem inclined to assume that the trend of prices will be upward rather than downward. The halt in the American demand, as reported from Savannah, may soon be followed by a reawakening of interest either for export or on domestic account. The London market on Wednesday closed at 145*s.* per cwt.

Valerian-root.—Belgian is easier, new crop offering at from 115*s.* to 125*s.* per cwt.

Vanilla.—The price of Tahiti beans, it is stated, shows a rising tendency in face of a crop which is estimated at 25 per cent. less than that of the previous year. German importers are reported to be buyers, and last week it is said that Hamburg paid 45fr. per kilo. f.o.b. London. (On an exchange rate of 52 this is about 8*s.* per lb.)

Vanillin is offered at 62*s.* per lb. upwards for 100 per cent.

Waxes (Vegetable).—*Carnauba* is about 5*s.* per cwt. cheaper on the spot, fatty grey offering at 220*s.* and chalky at 217*s.* *Japanese* vegetable is steady, with spot sellers at 115*s.* per cwt.

The exports from Japan during June amounted to 56,365 kin, valued at 26,137 yen. During the six months ended June 30 they were as follows:

	1918	1919	1920
Kin	4,451,534	672,134	414,998
Yen	1,401,633	252,252	220,764

Zinc Products.—Zinc oxide has been in fair demand at previous rates, but zinc-dust is slow, business being arranged at prices ranging from 80*l.* to 84*l.* per ton. The crippled state of the smelting industry in this country makes the outlet for zinc-ashes more difficult, even at low prices. Brass-ashes are wanted, but there is not much of this offering. Raw zinc is tending upward.

Essential Oils Market.

There appears to be, as yet, no change from the dullness which has settled upon business. It seems generally agreed that the primary causes are the tightness of the money market and the hope that prices will decline to a more normal range. When to this is added that bogey of every trader—the excess-profits duty—and the unsettled condition, and high cost, of labour, the handicap which is imposed on commerce is by no means a light one. In the meantime there appears to be more inquiries, but while these are encouraging there is not much profit accruing. Japanese essential oil of camphor is dearer, and is said to be scarce on spot. Eucalyptus oil also is inclined to be firmer on spot, and prices have now approached the level quoted for forward for some months past. Sicilian oils are extremely quiet, but it is anticipated in some quarters that bergamot may rise in view of the fact that the dry weather has resulted in a small crop. Lemon is unchanged, and the present open market quotation has been described as the limit to which the price may be expected to recede. Lime oil is nominal for distilled, and hand-pressed is weaker in absence of demand. Nutmeg oil is lower with lemongrass, which is quite neglected. Ceylon citronella and cinnamon-leaf oils are on the easy side. Among the synthetics quotations continue to be very irregular owing to the lack of interest on the part of consumers.

Anise, Star, has a continued easy undertone, with a few sales of Red Ship brand at 4*s.* 1*d.* per lb.

Bay.—Spot holders quote 27*s.* 6*d.* to 28*s.* per lb., but the forward price is steady at 28*s.* 6*d.*

Bergamot is very quiet, and quotations remain in the neighbourhood of 32*s.* to 35*s.* per lb. for 37-38 l.a. For prompt shipment the tendency is slightly firmer.

Camphor.—The price quoted in these columns last week for Japanese essential oil, white (140*s.* to 145*s.* per cwt.), should have referred to forward delivery and not spot as stated. Spot lots appear to be temporarily scarce and dearer, about 195*s.* to 200*s.* being quoted. Brown has been sold on the spot at 140*s.* It should be noted that the c.i.f. prices do not bear much relation to the actual spot values owing to the leaky condition of packages, which involves loss of weight and additional charges for repacking. The exports from Japan during June amounted to 152,288 kin, valued at 37,060 yen. During the six months ended June 30 they were as follows:

	1918	1919	1920
Kin	539,623	266,439	1,221,649
Yen	108,069	66,244	537,267

It will be seen from the above figures that the exports for the present half-year are nearly five times greater than those for the corresponding half-year of 1919, and that the exports during June 1920 amounted to more than half those for the first six months of 1919.

Cananga is quoted at 24*s.* to 26*s.* per lb., according to quantity.

Cedarwood is unchanged at 3*s.* 6*d.* to 4*s.* per lb. for spot.

Cinnamon.—Ceylon leaf can be bought at 9*d.* to 9½*d.* per oz. spot. The c.i.f. quotation is about 7¼*d.*

Citronella.—Ceylon is weak on spot at 2*s.* 5*d.* to 2*s.* 6*d.* per lb. The c.i.f. price is given at 2*s.* 3*d.* to 2*s.* 5*d.* Java is unchanged, with sellers in ton lots at 5*s.*

Clove.—For October delivery 14*s.* 6*d.* per lb. is quoted, which represents about the present spot value.

Eucalyptus.—B.P. oil is firm, and 3*s.* 1*d.* to 3*s.* 3*d.* has been paid this week for spot. Forward quotations are about 3*s.* 1*d.* c.i.f.

Geranium.—Spot holders quote 40*s.* to 41*s.* per lb. for Bourbon and 41*s.* for Algerian. The second crop of the latter comes on in October-November, and reports state that this will be less than normal. Growers are said to have refused 140 fr. to 150 fr. bids, and as the usual (three- to five-year) contracts have consequently not been entered into, the amount of geranium laid down in future may diminish so long as growers find better pecuniary results in other directions (*C. & D.*, August 21, p. 107).

Gingergrass continues to be inquired for, but it appears that supplies in India are exhausted, and shippers are awaiting new crop oil before entering into new commitments. Bids of 19*s.* per lb. are said to have been refused.

Lemon.—Spot is unchanged at 5*s.* 6*d.* to 6*s.* 3*d.* per lb., although it is reported that holders, in some directions, have sold out at under, thereby incurring considerable loss. Firmer quotations are coming forward from the source, from 5*s.* 5*d.* to 6*s.* 4*d.* per lb., c.i.f., having been given, but spot supplies seem to be ample, and higher forward prices are not, at present, likely to be considered.

Lemongrass.—Cochin appears to be neglected, and spot is offered at 8*d.* to 8½*d.* per oz., with forward quotations at 6*d.* to 6¼*d.* c.i.f.

Lime.—Distilled is nominal at 6*s.* per lb. for spot. Hand-pressed is a shade easier at 26*s.*

Mandarin is offered on the spot at 52*s.* 6*d.* per lb. in round lots.

Mint.—Japanese dementholised continues quiet, with spot sellers of Kobayashi-Suzuki at 6*s.* 7½*d.* to 6*s.* 9*d.* per lb. The exports from Japan during June amounted to 68,351 kin, valued at 441,265 yen. During the six months ended June 30 they were as follows :

	1918	1919	1920
Kin	78,603	193,714	208,448
Yen	161,671	530,649	1,465,700

Nutmeg is lower at 10*s.* per lb. for spot in one direction.

Orange.—Calabrian sweet is a shade easier forward, with c.i.f. quotations made at 26*s.* 5*d.* to 32*s.* per lb. Spot is dull of sale and unchanged at last week's figures—34*s.* to 35*s.* per lb. Bitter last week reached the low figure of 17*s.* 3*d.* c.i.f. to arrive. West Indian, both bitter and sweet, can be bought at 28*s.* per lb. spot.

Palmarosa.—Spot offers continue to be made at 23*s.* to 23*s.* 6*d.* per lb. in original pots.

Pennyroyal is dull, with fair offers on spot at 6*s.* 6*d.* per lb. for Spanish.

Petitgrain.—Paraguayan is steady at 27*s.* 6*d.* per lb. spot.

Rosemary.—Spanish is offered at 4*s.* 3*d.* to 4*s.* 9*d.* per lb. spot, and a firmer tone in the near future seems to be indicated.

Sandalwood.—West Australian can be bought on spot at 28*s.* to 28*s.* 6*d.* per lb.

Sassafras.—American natural is firm on spot at 12*s.* to 12*s.* 3*d.* per lb.

Spearmint is lower at the source, offering at $8.75 and even less for shipment by some distillers in the Middle West States.

Spike.—A cable advice just received from Spain states that an increase of 1*s.* 3*d.* per lb. has been paid over previous quotations. This has had a reaction on spot offers, which were previously made at 7*s.* 6*d.* to 8*s.* 6*d.* per lb., the cheaper offer being now withdrawn.

Thyme.—Spanish red is reported to be scarce on spot for high-percentage oil, and quotations range from 12*s.* to 10*s.* per lb., according to phenol content.

Wintergreen (Sweet Birch Oil) is scarce on spot, with 37*s.* 6*d.* quoted for small lots. To arrive the price given is 36*s.* 6*d.* c.i.f.

Wormseed is scarce on spot, and high prices are said to have been paid for the small lots available. Parcels to arrive within the next few months are offered at 50*s.* per lb. c.i.f.

Aromatic and Synthetic Chemicals.

Amyl salicylate is offered on spot at 10*s.* per lb., which is lower. Benzaldehyde f.f.c. is lower on spot at 4*s.* 6*d.* per lb. Benzyl benzoate is unchanged on spot at 12*s.* to 13*s.* per lb., but forward quotations are lower at 9*s.* Diphenyl oxide is quoted around 10*s.* per lb., but fair quantities can be obtained at 7*s.* for spot. Terpineol varies from 5*s.* to 6*s.* for spot, according to source. Quotations are given at 4*s.* 6*d.* for forward.

The Olive Oil Market.

Developments in regard to the position of olive oil may shortly be expected. New crops will be coming along within the next month or two. For instance, the Tunis crop is due in October to November; December is the month for the Spanish crop, and French oil is obtainable in January. It may be recalled that in 1919 the export of olive oil from Italy was prohibited, but it is stated on good authority that the ban may shortly be removed, while exportation from Greece is now permissible. The price now quoted (23*s.* per gallon c.i.f. London, packing included) for finest edible oil may therefore reasonably be expected to decline in the face of improved supplies. It appears that this product has been made the subject of much speculation, and consumers who are placing contracts may well consider whether, by waiting until about the middle of November, they would not be able to obtain more advantageous terms. It is as yet too early for definite news of the crop prospects.

The French Lavender Oil Crop.

Paris, September 27.

With regard to the crop and distillation of lavender flowers in the Alps, the outlook is worse than was expected (writes our correspondent). In the beginning of July the high prices offered for lavender plants indicated that the prices of oil would be in favour of sellers. Generally speaking, seeing the considerable rise in the price of the flowers, for which from 125fr. per 100 kilos. was asked instead of 75fr. (the price last year), buyers anticipated having to pay 200fr. a kilo. and 220fr. for fine quality oil of 40° ester. Very dry weather having prevailed during the harvest, the yield of oil was lower than that of last year, and the primary cost (the distillers say) was largely exceeded; thus on the market of Digne (the most important for lavender oil) the producers refuse to consider the bids of the sellers from Grasse and elsewhere, who offered 200fr. a kilo. No business has thus resulted, both sellers and buyers trusting that the next market (on October 2) will settle the prices. In the meantime, producers have posted in Grasse a bill warning buyers that not a gram of lavender oil will be sold under 310fr. a kilo. The advantage will probably be to the sellers, who are not in a hurry to get rid of their oil, notwithstanding the fact that American buyers have threatened to withdraw from the market, as stocks are practically *nil*. Some people predict that the rate of 400fr. may be reached very soon. They say, "Has not neroli oil been bought at 8,000fr. to 9,000fr. a kilo.?" In an amusing article the "Figaro" stated recently that the lavender-flower distillers hold the record for the rise in prices, as a kilo. of lavender oil, which sold at 24fr. before the war, now costs nearly fifteen times the pre-war figure (320fr.)!

The Sugar Market.

A weekly review of the produce markets, dated September 25, reports that the continuous fall in the price of Cuban centrifugals from 22.59c. per lb. in the latter part of May, to 9½c. per lb. current price, would appear to have discounted to a large extent the very abnormal position in the American market, and a slightly steadier tone is noticeable. The congestion of some weeks ago has been eased by the resale of good quantities of white Java to Europe and other places. There is still a good inquiry from France and other Continental centres for American refined, but sellers at present do not appear to be eager to make offers.

It is probable also that the financial position is not so straitened, and that bankers are less reluctant to make advances upon the present more reasonable basis of value. The conditions for harvesting the American domestic beet are not unfavourable, but latest advices do not support the very sanguine estimates of a few weeks ago of the ultimate outturn of the crop. In Germany the crop is estimated to yield 1,100,000 tons, against 800,000 tons last season, but there is a feeling among producers and others intimately connected with sugar that no real progress can be made in establishing the industry upon a pre-war footing until Government control is withdrawn. Private advices from Czecho-Slovak districts report that the crop has been greatly helped by recent rains, but that sunshine is now wanted to improve the sugar-content. The general conditions are satisfactory, but it is thought that previous estimates will not be wholly attained. In the home market more activity has been seen, and a considerable business has been done in grocery crystallised and Muscovado soft sugars at fully steady prices. This buying has probably been influenced by the fear of labour difficulties and, to some extent, by the Government decision to reduce the ration of controlled sugar in the event of a coal strike. The refined market is unchanged. Allotment for the current period ending on October 2 is well advanced, considerable disposals of British refined and American granulated having been made by the Royal Commission during the week. Business in "free" privately imported white sugar is stagnant, but a good trade has been done in British-made pieces at steady rates.

Santonin Production.

In the course of a report on the production of santonin in Russia, issued by the American Bureau of Foreign and Domestic Commerce, it is stated that during the last few years the output was controlled by the shareholders of the Santonin Co. in Russia, which was in turn controlled by the heirs of I. I. Ivanov in Tashkent. Prior to the war the Santonin Co. sent its entire production to Germany to be refined, and received from that country about 15 poods (1 pood = 36.1128 lb.) of the refined product each year, which quantity was all that was needed for Russian consumption. Thus Russia had the monopoly of the production and Germany the distribution of this important drug. According to Russian official statistics the amount of santonin exported from Russia to Germany and Great Britain during the years 1910-1916 was as follows (rouble at par of exchange = $0.5146):

Years	Exports			
	Germany		Great Britain	
	Poods	Roubles	Poods	Roubles
1910	963	23,256	—	—
1911	—	—	—	—
1912	141	7 800	—	—
1913	303	117,000	—	—
1914	200	93,000	—	—
1915	—	—	300	701,000
1916	—	—	200	382,000

The foregoing figures show that the official valuation of santonin per pood increased from 55 roubles in 1912 to 390 in 1913. In 1914 the valuation was 465 roubles; in 1915, 2,337; and in 1916, 1,910 roubles. Prior to the war the exports went to Germany; since then they have gone to Great Britain. No data is available as to whether the Santonin Co. gathered only a part of the *Artemisia cinca* crop, or whether there were crops that would have yielded a larger production.

Chinese Camphor.

In a review on the foreign trade of Hong Kong by the Commercial Secretary to H.M. Legation, Peking, it is stated that the camphor exports from Hong Kong during the December 1919 quarter amounted in value to 406,302*l*., which figures are very remarkable when it is considered that the total value of the camphor shipped from Hong Kong in 1918 was only 23,423*l*. The explanation of this enormous increase is that it is probably due to strong anti-Japanese feeling at Foochow, the centre of the camphor industry, where in normal times Japanese firms monopolise the trade. Sentiment against Japan was accentuated owing to certain incidents which occurred in the autumn of last year, and it is suggested that as one result of this feeling the bulk of the supplies of camphor available were shipped to Hong Kong for sale instead of being disposed of locally. The strong demand for camphor has also led to more attention being devoted to the industry in other parts of South China, and efforts are being made to increase production in the West River area. Of the total exports from Hong Kong, the United States took by far the largest share, amounting to 321,096*l*., while 29,933*l*. worth went to India, and 27,486*l*. worth to Great Britain.

Arrivals of Drugs, Chemicals, etc.

The following products have arrived at the ports named:

London.

(September 21 to 28).

Casein, (Bombay) 334 bgs., (R'dam.) 74 cs.
Chemical products, etc., (Germ.) 38 cks. 42 drms., (N.Y.) 34 cs.
Acetic acid, (Antw.) 335 dmjns., (R'dam) 12 cks.
Ammon. carb. (Sp.), 25 brls.
Argol (Sp.), 234 bgs.
Barytes, (Germ.) 61 cks., (Antw.) 670 bgs., (Sp.) 1,700 bgs. 800 brls.
Beta-naphthol, (Hamb.) 4 cks., (N.Y.) 137 brls.
Borax (Fr.), 32 pkgs.
Bromides: ammon (Germ.), 20 cs.; potash (Germ.), 21 cks. 40 cs.; soda (Germ.), 30 cs.
Calc. borate (Chile), 3,915 sks.
Calc. tartrate (Sp.), 250 bgs.
Cobalt oxide (N.Y.), 14 brls.
Cream of tartar (N.Y.), 30 pkgs.
Creosote (N.Y.), 11 cs.
Lithopone, (N.Y.) 150 brls., (Antw.) 120 brls.
Milk-sugar (N.Y.), 300 brls.
Naphthol (N.Y.), 12 brls.
Oxalic acid, (Hamb.) 11 brls., (Holl.) 34 cks.
Potash, caustic. (Germ.) 16 drms., (Holl.) 181 drms.
Potash pruss. (Germ.), 20 cks.
Salicylic acid (Hamb.), 4 cs.
Silver nitrate, (Swe.) 6 cs., (Germ.) 45 cs.
Soda bicarb. (Fr.), 327 pkgs. 155 brls.
Soda bichrom. (N.Y.), 5 brls.
Soda caustic (N.Y.), 20 cs.
Soda hyposulph., (N.Y.) 100 brls. 284 pkgs., (Calais) 284 pkgs.
Soda salicylate (Germ.), 10 cs.
Tartar (Fr.), 211 bgs.
Urea (Germ.), 10 cs.
Zinc oxide, (Belg.) 230 brls., (N.Y.) 500 brls.
Drugs, crude, etc.: (Can.) 63 cs.; herbs (N.Y.), 38 bgs. 633 pkgs.
Balsams (N.Y.), 7 cs.
Balsam tolu (Fr.), 10 cs.
Calumba (E.I.), 290 bgs.
Chamomiles (Belg.), 5 bls.
Ipecacuanha (Germ.), 16 bls.
Kola (W.I.), 10 bgs.
Orris (It.), 15 pkgs.
Papain (Cey.), 20 cs.
Podophyllum (N.Y.), 76 bgs.
Senega (N.Y.), 25 bls.
Tamarinds (W.I.), 237 brls.
Tonka beans (W.I.), 10 cks.
Dyes, dyeing and tanning materials, etc.: aniline dyes, (Holl.) 20 cks., (Belg.) 28 pkgs., (N.Y.) 94 pkgs. 21 cs., (Finl.) 27 brls.
Glyco-heroin (N.Y.), 120 cs.
Glyco-thymoline (N.Y.), 1,244 bxs.
Gums, resins, etc.: Acacia (E.I.), 305 bgs. 254 pkgs.; copal (Manila), 274 cs. 200 bgs.; damar, (S'pore) 113 cs., (Holl.) 25 cs.; lac (E.I.), 239 pkgs.; stick (S'pore), 50 cs.; myrrh (E.I.), 26 bgs.; resin (Sp.), 138 cks.; tragacanth (E.I.), 3 cs. 194 bgs.
Honey (W.I.), 174 pkgs.
Lime-juice (W.I.), 132 cks. 728 pkgs.
Oils, essential: (N.Y.) 46 pkgs.; bay (W.I.), 1 cs.; lime (W.I.), 171 cs.; mint (Jp.), 50 cs.; nutmeg (N.Y.), 10 cs.; petitgrain (R. Plate), 7 cs.; peppermint (N.Y.), 50 cs.; sandalwood (E.I.), 170 cs.
Oils, fixed: coconut (Cey.), 141 pkgs.; palm (Holl.), 60 cks.; sperm (St. Michael's), 194 brls.
Olive oil (It.), 10 brls.
Petroleum jelly (N.Y.), 80 brls.
Seeds: caraway (Holl.), 120 bgs.; copra (Straits), 2,478 bgs.; lin (E.I.), 12,674 bgs.; sunflower (Cape), 400 bgs.
Soy (Ch.), 255 pkgs.
Spices: cassia (W.I.), 3 bgs.; chillies (E.I.), 48 bls.; cloves (Belg.), 117 bgs.; ginger (Ch.), 55 cks.; mace (W.I.), 122 pkgs.; nutmegs (W.I.), 247 pkgs.
Waxes: carnauba (N.Y.), 363 bgs.; paraffin, (U.S.) 6,046 brls. 150 bgs., (scale) 172 bdls.

Liverpool

(September 20 to 27).

Chemical products, etc.:
Barytes, (Antw.) 400 bgs., (Germ.) 26 cks., (U.S.) 105 brls.
Beta-naphthol (U.S.), 6 brls.
Glycerin (Port.), 8 cks.
Iodine (Chile), 782 brls.
Lactic acid (Germ.), 30 brls.
Lithopone (Holl.), 20 cks.
Mercury (V. Cruz), 24 flks.
Paraldehyde (Can.), 16 drms.
Quinine (Jv.), 556 cs.
Sod. phosph. (U.S.), 108 pkgs.
Sulphur (U.S.), 2,627 bgs.
Tartar, (Port.) 20 cks., (Fr.) 101 cks.
Zinc oxide (Belg.), 20 brls.
Drugs, crude, etc.: Canagra (Vera Cruz), 55 bgs.; chamomiles (Antw.), 20 bls.; cinchona, (Arica) 120 bls., (Mollendo) 54 bls.; cod-liver oil (Norw.), 20 brls.; guinea grains (W. Af.), 71 bgs.; quillaia (Chile), 105 bls.; sarsaparilla (Mex.), 95 bls.; senega (N.Y.), 14 bls.
Gums, resins, etc.: acacia (P. Sudan), 3,368 bgs.; almedina (Port.), 30 bgs.; copal, (W. Af.) 124 brls., (Antw.) 403 bgs.; resin, (U.S.) 2,100 brls. 15 bdls. 1,254 cks., (Para.) 18 cks.
Honey (Chile), 70 cs. 2,662 brls.
Isinglass (Para.), 36 bgs.
Kieselguhr (Hamb.), 461 bgs.
Oils, essential: (N.Y.) 6 cs., (Fr.) 60 cs.; turpentine, (Antw.) 250 brls., (Port.) 287 cs. 10 cks.
Oils, fixed: coconut (Antw.), 737 brls.; cod (St. John's, N.F.), 175 cks.; olive (Fr.), 65 cs.; palm (W. Af.), 3,851 brls. 200 drms. 3,135 cks.; seal (St. John's, N.F.), 324 cks.
Orchella weed (Port.), 11 bls.
Seeds: canary (Sp.), 190 bgs.; caraway (Holl.), 25 bls.; cotton (E. Af.), 1,750 bgs.; groundnuts (W. Af.), 8,527 bgs.; lin (E. Af.), 185 bgs.; palm kern. (W. Af.), 360 tons 56,266 bgs.
Wax: carnauba (Braz.), 150 bgs.

Hull

September 21).

Cod-liver oil (Bergen), 310 brls.; turpentine (Swe.), 12 brls.

Manchester

(September 18 to 23).

Acetic acid (Can.), 143 brls. 14 cks.; aniline dyes (Holl.), 1,303 cks.; magnesite (Holl.), 625 bgs.; phosphorus (Can.), 500 cs.; senega (N.Y.), 4 bls.; soda acetate (Holl.), 41 cs.; soda phosph. (Antw.), 53 cks.; tannic acid (Can.), 34 brls.; zinc oxide (Holl.), 20 brls.

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Proprietary Medicines Bill.

Sir,—Your correspondent, Mr. Henry G. Morgan (*C. & D.*, September 25, p. 95), draws attention to the power which the Minister of Health will possess to add any disease to the schedule at discretion, but to my mind a far more dangerous threat to the legitimate business of pharmacists exists in the method of registration of proprietary medicines. As at present drafted it appears that the granting of registration to any proprietary article is absolutely in the hands of the Minister, and he has the right of refusal without explanation or appeal. Following on, as it does, the Dangerous Drugs Bill, it may be taken for granted to start with that any proprietary containing such drugs as morphine, even if in infinitesimal doses in the shape of tinct. camph. co., will be turned down at a glance, and this will stop at once the manufacture and sale of hundreds of simple cough-mixtures and so on packed by chemists as their own lines. At present, apparently, the "known, admitted and approved" formulas published in Pharmaceutical Formulas do not come under the scope of the Act, as the fact of publishing the ingredients and denoting where the formula can be found by using the P.F. number on the label relinquishes the claim to a proprietary right; but it is extremely doubtful if, when a registration department has been formed, presumably supported by its fees, it will not find some means of including such remedies as well.

Yours faithfully,
Registrar. (25/9.)

Drugs, Dysentery, and other Diseases.

Sir,—Somehow I think that the memory of the late Mr. Wootton should be honoured by an annual lecture by some distinguished speaker on the romance of pharmacy. Never was the romance of pharmacy so riotous as in the present century. We are emerging from the days of therapeutic nihilism—from the teaching of those self-sufficient but short-sighted physicians who told us that all drugs were either useless or harmful, and that herbal knowledge was either an old woman's fad or based on silly superstitions. Now we find the hide and meat industry of the world held up by the hook-worm disease. Millions of money are involved, and suddenly somebody finds a specific in a despised drug, chenopodium. The health of miners, the output of mines, depend largely on the supply of another drug, thymol. Millions of children are now alive with ascarides because of the scarcity of santonin. The extraordinarily interesting letters from an Indian physician and pharmacist which you publish reflect the last word on the dysentery problem far more clearly than anything which was said at the recent meeting at Cambridge. Some day the British public and profession will awaken to the urgency of the question of finding a remedy for dysentery. The economic importance of the matter is very great. We cannot keep any Eastern possession, outside of India, unless at enormous loss, until we find some better method of treating dysentery. Your correspondent suggests "the help of God and a few herbs." That is about as far as we have got. It is the fashion to boast of what we have done in the Army against enteric. Maybe, but some day, when the British taxpayer counts up what dysentery and malaria have cost him in the late campaign, he will not be particularly complaisant. We gave our patients a little ease, a little opium, an active bed-pan orderly, and perhaps a little emetine. Some of them lived and some of them died, and the majority are drawing pensions. I have never been convinced that the serum treatment is a success. In Malta we had practically abandoned it on account of complications, and afterwards in Egypt I found some strenuous advocates and some sceptics. You remember Mr. Dooley on Christian Science? He declared that if doctors had more Christianity, and the other people more science—it wouldn't much matter which you called in—provided you had a good nurse. I am tempted to say it doesn't much matter whether you give your dysentery patient serum or salts or emetine, provided you have a good nurse; but you find that good nursing fails you, like everything else. Anyhow, there is an opening for a remedy for dysentery; there is a bright future for the pharmacologist. We really ought to accept the fact that certain drugs have an effect on certain diseases, and apply our minds to the problem of how they act. Finally, I think that one of the most hopeful facts for the pharmacist is that in one of the latest American text-books—"Drugs sometimes cure, often relieve, and always comfort the sick." Yours truly,

Dublin. J. C. McWalter, M.D., F.L.S.

Mr. Pike's Reminiscences.

Sir,—May I make a few remarks on Mr. Pike's reminiscences (*C. & D.*, September 4, p. 83) without attempting to be as facetious and verbose as Mr. Pike? I knew the late Joseph Roberts over a much longer period than your correspondent, and can vouch for some of Mr. Pike's statements being inaccurate. Mr. Roberts did not lease but bought the premises 17 Bigg Market, nor was the fantastic scheme mentioned by Mr. Pike ever attempted, the shop being fitted up on modern and sensible lines. Mr. Roberts was generally considered to be businesslike and conscientious, with a wholesome sense of quiet humour. I remember Mr. Roberts being much amused and a little impatient with a manager who spent a long time trying to sell *one* pill to a lady customer for neuralgia.

Yours truly,
No Panic. (24/9.)

Travellers' Commission.

Sir,—The phrase "Gross sales returns" (*C. & D.*, September 25, p. 95) is a good example of the loose wording frequently met with in travellers' and other agreements. If we analyse it we get: (1) Gross—all, without any deduction whatever; (2) sales—the quantity sold; (3) returns—that which has been received from that which has been sold. From the above we deduce that "Gross sales returns" really means the amount which has been received in respect of the quantity which has been sold. It would therefore appear that the strict interpretation of the phrase "Gross sales returns" means that a traveller would be paid commission on net invoice price of the goods sold as and when the money had been received in respect of such sales. Yours faithfully,

Saltito. (24/9.)

Ph. C. (11/9) writes that the commission is usually on net sums, the actual net amounts of accounts.

The Rights of an Apothecary.

Sir,—As you are aware, the Society of Apothecaries of London consists of Yeomen and Liverymen. From the Livery is elected the Court of Assistants, which corresponds to the board of directors of a modern company. The Court of Assistants elects the master and wardens, who, with the past-masters, are the executive of the company, and the clerk and bedell, who are its chief paid servants. The licentiates do not belong to the company. They merely hold from it a diploma to practise medicine and surgery. It appears to be doubtful whether they are also apothecaries and entitled to keep open shop. They have no say in the affairs of the Society, but they are eligible to be elected members of it. The remarkable thing about the body is that any son of a member and any other person may become a member of it, although they may have no connection with medicine or pharmacy. These individuals, like all others, are balloted for by the Court of Assistants, and admitted either (*a*) by patrimony, or (*b*) by redemption. A person joining by patrimony must be the son of a member, and qualified for admission by a nominal apprenticeship and a small fee. A person joining by redemption pays a lump sum of about 25*l*. In all cases the new member becomes a

Yeoman of the Society, and entitled to style himself an apothecary, whether he has any knowledge of the "art and mystery" or not! All members are eligible for the Freedom of the City of London, and I have just come across, in "Who's Who," the name of a London vicar, with no pharmaceutical or medical qualification, who styles himself "Freeman and apothecary of the City of London." These non-medical "apothecaries" are not eligible for the Livery or any office under the Society, but apparently they are "apothecaries," and I would like to know what is their legal status. Can the member of the Society of Apothecaries keep open shop, whether a doctor of not; and, if not, is he correct in styling himself an apothecary? Yonrs faithfully,

A Real Apothecary. (18/9.)

The Metric System in Pharmacy.

Sir,—With reference to your editorial article on "The Metric System in Pharmacy" (*C. & D.*, September 25, p. 80) one of the most practical helps of the many which the *C. & D.* has given to retail pharmacists was the publication of the formulas of the 1914 Pharmacopœia in the terms of English weights, and it is one to which we refer daily. A further objection to the use of the metric system in pharmacy, in addition to those you mention, is the difficulty the prescriber and the dispenser would have in adjusting the doses to the directions. The English drachm and ounce correspond respectively to the teaspoon and the tablespoon; this renders it easy to adjust the doses, and to order six or eight ounces as required, especially as in in many cases the prescription is written for one dose, and the quantity to be sent indicated last. Imagine the helpless plight of the medical man who turns up the relation of metric to imperial standards in the Pharmacopœia (if he possesses one), and finds that a fluid drachm equals 3.5515 mils nearly. I am aware, of course, that in France the directions are written as *cuillerée à café*, *cuillerée à soupe*, etc., but then the French medico has learnt his posological table in metric terms to start with. I also hold that for accuracy of dose the metric is not so efficient as the English system, which opinion also refers to dispensing by weight, as I have seen abroad potent liquid drugs when ordered in small quantities dropped in to save trouble. In spite of our odd numbers, I should be very sorry to see the metric system enforced, as there would be considerable risk of accident during the change-over period. Yours faithfully,

Antimetrique. (19/9.)

The Latin for Syrup of Figs.

Sir,—The discussion respecting syrup of figs is becoming quite interesting. We suppose Mr. S. P. Sayers is concerned with the inconsistency shown in the wholesale lists. In addition to The British Drug Houses, Ltd., several well-known houses, among them Evans Sons Lescher & Webb, Ltd., and ourselves list it as "Syrup of Figs." We quite agree with The British Drug Houses, Ltd., when they say that "syrup of figs" has become a household word, but so has laudanum (no monopoly claimed), yet we all list it as "Tinct. Opii." Syrup of rhubarb, paregoric, etc., provide other instances. As to what should be the correct Latin, why not leave it to the B.P. Codex? There we have it "Syrupus Ficorum."

Yours faithfully,

Manchester. Oldfield, Pattinson & Co.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Truss Experience.

Hopeful (*C. & D.*, September 25, p. 95) will find the most comfortable truss is one with pneumatic pads and elastic strong band (instead of steel spring). I had one thus made by the Surgical Hosiery Co., Ltd., Nottingham, at a doctor's suggestion, for a patient, and since then have had several made for various customers, who all speak highly of them.—*S. L. O.*

Examination of Drinking-water.

Those who have to examine samples of drinking-water may have observed the following: Bad waters frequently show iridescence when the solids have been evaporated to dryness in a platinum dish; when Nesslerising the Nessler solution becomes appreciably darker in colour, so that matching between the known and unknown strength ammonia solutions becomes a matter of some difficulty; if water from a town supply be allowed to flow through a glass tube (*e.g.*, a Liebig's condenser) there may appear a greenish slimy mass adhereut to the inner walls of the tube; if a decanter filled with water is exposed to the sunlight there may develop within a few days a similar condition due to deposition of fungoid growths; if a bright spoon, nickel-silver or silver, or if any gold ornament be placed in a sample of such a water "tarnish" makes its appearance. As a result of these observations it is suggested that if bright silver-leaf be suspended in a sample of water, and closely observed from time to time, some useful information may be obtained regarding its purity, and especially concerning the presence of sulphnr compounds, SH_2, etc., the search for which does not appear to form any part of the ordinary chemical analysis of water. It might be also a valuable aid to the bacteriological method so much used to-day. As the use of a spiral of copper wire around the inner tube of the glass Liebig's condenser prevents the formation of the green slime it may be assumed that the use of infinitesimal traces of copper salts added to a town water supply would provide a means of purifying suspected waters.—*Abel Scholar.*

Legal Queries.

S. B. (21/9.)—The privilege of selling "known, admitted, and approved" remedies unstamped is limited to those who have served a regular apprenticeship or to limited companies carrying on business in conformity with the Poisons and Pharmacy Act, 1908.

Lignum (26/9).—The best way of identifying your pharmaceutical preparations is to adopt a brand-mark for a series of manufactures. In this way the proprietary rights being in the brand-mark do not make the preparations to which the mark is attached liable to medicine-stamp duty. It is assumed that liability is not incurred by the wording of the label or by advertising matter.

Uncertain (25/9) has for many years had a mortgage with a Friendly Society. The rate of interest was originally 4 per cent., but this was increased three years ago to 5 per cent. Was this increase legal? [The increase was not enforceable if the property mortgaged was covered by the Increase of Rent Act, 1915, that is to say, consisted of a dwelling-house of which either the standard rent or the rateable value on August 3, 1914, did not exceed 35*l.* if in London, 30*l.* if in Scotland, and 26*l.* if elsewhere. The amount overpaid is recoverable from the mortgagees.]

A. E. M. (27/9.)—The executors of a deceased chemist are, by Section XVI. of the Pharmacy Act, 1868, entitled to carry on the business so long as such business is *bona fide* conducted by a qualified chemist whose certificate of qualification is duly exhibited as required by Section 3 (2) of the Poisons and Pharmacy Act, 1908. There is no limit of time in which the business can be so carried on. If the business is converted into a limited-liability company, a qualified chemist will have to be the superintendent or a director according to the trading style of the company.

T. H. L. (13/9) purchased a house in 1918 subject to a mortgage executed in 1903. The mortgagee has given notice increasing the 5 per cent interest payable under the mortgage. Is this increase enforceable? [Subject to the terms of the mortgage deed, no increase in the rate of interest can be enforced unless the mortgage debt is repayable, and the mortgagee would be in a position to

exercise his rights but for the provisions of the Courts Emergency Powers Acts or the Increase of Rent Act. If the property mortgaged is of a class covered by the latter Act the maximum increase permissible in any event is 1 per cent., making the rate of interest 6 per cent.]

G. A. C. (28/9) asks by what amount the rent of business premises may be increased. [In the case of premises used only for trade or business purposes, of which either the standard rent or the rateable value does not exceed 105*l.* in London, 90*l.* in Scotland, and 78*l.* in the provinces, the maximum increase of rent allowed under the Increase of Rent Act, 1920, is 35 per cent. of the net rent, together with a further 25 per cent. of the net rent if the landlord is responsible for the whole of the repairs. If the tenant is responsible for repairs the latter increase will be correspondingly reduced. The protection of the Act will last only until June 24, 1921, and does not apply at all to premises larger than those mentioned, the rent of which may be increased to any extent.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

T. D. S. (16/9).—Protecting from Fleas.—In the case you mention we think you should recommend the use of naphthalene; a little sprinkled in the bed is an effectual protective of the occupier. A more pleasant remedy is a solution of anethol in spirit (about one in thirty). This was much used during the war.

F. G. M. (20/9).—We are making inquiries from the author of the formula.

W. E. A. C. (25/9).—Veterinary Formulas.—You will find a good selection of formulas for veterinary preparations in "Veterinary Counter Practice" (*C. & D.* Office, 6*s.*). Several of the preparations you mention are proprietary articles, and the formulas are not known to others than the proprietors.

G. A. H. & S. (22/9).—Destroying Worms on Lawns.—See *C. & D.*, 1, 1920, pp. 128, 222, and 134.

A. J. C. (26/9).—Books on the Manufacture of Aerated Waters.—Goold's "Aerated Waters and How to Make Them" ("Mineral Water Trade Review," 5*s.*); Sulz's "Treatise on Beverages" (Dick & Fitzgerald, New York); Walter's "Manual for the Essence Industry" (Chapman & Hall, 18*s.* 6*d.*); Kirkby's "Evolution of Artificial Mineral Waters" (Jewsbury & Brown, Manchester). The first two are not very recent, and the last-named book is out of print.

P. T. (28/9).—There is no universal encyclopædia of pharmacy and chemistry on the lines you mention. What many chemists do is to keep the volumes of The Chemist and Druggist, with the indexes, so that the contents can readily be consulted. The sample questions you put have all been answered in recent volumes.

J. W. M. B. (27/9).—Your suggestion of a 10-per-cent. discount on goods purchased by proprietors of nursing homes and similar establishments is a reasonable one.

Tablets (28/9).—Saccharin Tablets.—Particulars of the method of making saccharin tablets were given in the *C. & D. Diary*, 1919, p. 89. It is too soon to reprint this.

C. B. (28/9).—(1) Dentures Suction Powder.—In place of powdered tragacanth, which is now so expensive, we suggest the use of powdered slippery-elm bark or any mucilaginous vegetable product of a similar kind. (2) The warning leaflet regarding disinfectants which is being sent out by the Commissioners of Customs and Excise is of a general nature and is intended to call attention to a growing disregard for the provisions of the Medicine Stamp Acts so far as these concern disinfectants recommended for ailments.

J. W. (22/9).—Treatment of Boils.—The emp. galban. co. used in the abortive treatment of boils ("Diseases and Remedies," p. 22) is preferably that of the London Pharmacopœia, which was a more stimulating preparation. The formula is:

Prepared galbanum	℥viij.
Turpentine	℥j.
Prepared frankincense ...	℥iij.
Lead plaster	℔iij.

Add the frankincense and afterwards the plaster, melted together, to the galbanum and turpentine previously melted, and mix.

Viola (21/9).—Body-vermin Destroyer.—The N.C.I. vermicide devised by Mr. A. D. Peacock (*C. & D. Diary*, 1918) should be employed. The formula is:

Crude naphthalene	96 parts
Creosote	2 parts
Iodoform	2 parts

The iodoform can be replaced by French chalk if the odour of the powder is objected to.

Soho (20/9).—(1) Boot-polish.—You do not tell us what formula it is that has failed to yield a satisfactory product. (2) The Dentists Act (Amendment) Bill will not be introduced until next year. It is impossible to forecast your position until that measure is produced.

G. W. (23/9).—Coil Winding.—The short-circuiting effect produced in the covered copper wire is not entirely explained even if the methylated solution of shellac had contained acetic acid as an impurity. We should not have thought that a well-covered wire would have been affected in the way you state. You should test the sample of methylated spirit for acidity, and, if present, neutralise it with caustic soda, which is soluble in spirit.

J. R. N. (21/9).—Rendering Sailcloth Water-repellant.—A solution of 5 to 10 parts of anhydrous wool-fat in 90 to 95 parts of petrol, the lanoline being first liquefied with a little chloroform, would probably answer the purpose your customer has in view. This liquid is used for waterproofing cloth.

W. T. (1/9).—Registration before December 31, 1919, exempted you from the curriculum and retained to you the right of sitting for the Qualifying examination at one time. Providing you enter for the examination not later than October 1921, you will come under the present syllabus, unless the time is further extended. After that you will be required to pass on the extended syllabus in physics and pharmacy.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Oct. 15, 1870.

The Liverpool Conference.

(An exhibition of pharmaceutical products was held in connection with the British Pharmaceutical Conference.)

Messrs. Southall, Son & Dymond (now Southall Bros. & Barclay, Ltd.), of Birmingham, had many warm partisans, who would have given them the prize had there been one to receive. Their exhibit was of great interest to pharmacists. A large portion of it consisted of a rare and unique collection of the Indian materia medica, non-official in our Pharmacopœia. We are not quite sure that Messrs. Southall would do much service by adding to our present over bulky list of drugs. We are like David with his armour, and the homœopaths with their growing materia medica; we have not yet *proved* all the drugs we have. We want more skill in using those we have, not an increase of them. Nevertheless, it may be well to know where a stock of Indian drugs is to be had. Everyone noticed the magnificence of Messrs. Southall's scale preparations, and their iodides and bromides were also much admired. They exhibited besides some excellent specimens of various pharmaceutical preparations, and some cases of their analysed drugs. It seems they have a habit of supplying opium, scammony, the barks, etc., with the proportion of alkaloid or resin guaranteed, a system worthy of commendation and imitation.

GUARANTEED (LIKE "CONDY'S FLUID") NOT TO CONTAIN PERMANGANATE OF POTASH (POISON).

CONDY & MITCHELL, Ltd., will take Legal Proceedings against anyone supplying Permanganate of Potash Crystals as and for "Condy's Crystals."

"Condy's Crystals"

"Condy's Crystals" are put up in bottles to Retail at **1/3** each (P.A.T.A.) and are stocked by all the leading Wholesale Houses.

Proprietors:

CONDY & MITCHELL, LTD.,

Condy's Fluid Works, 65 Goswell Road, LONDON, E.C.1.



"SEMPROLIA" ADVERTISEMENTS

are appearing in the following and other publications:

ANSWERS, TIT-BITS, PEARSON'S WEEKLY, CHRISTIAN HERALD, STRAND MAGAZINE, CASSELL'S MAGAZINE, LONDON MAGAZINE, NASH'S MAGAZINE, ROYAL MAGAZINE, FASHIONS FOR ALL, EVERYWOMAN'S etc.

ARE YOU READY FOR THE DEMAND!

The WM. BROWNING Co., Ltd.,
Albert Works, Park Street, N.W.1.

Allows 50% Profit

P.A.T.A.

	Retail	Per doz.
1 oz. Collapsible Tubes ...	10d.	... 6/8
1 oz. Aluminium-capped Jars ...	9d.	... 6/0
2 oz. ,, ,, ,, ...	1/0	.. 8/0

SNOW-WHITE

Semprolia

Trade Mark

PETROLEUM JELLY

ESTABLISHED 1768.

The Pioneers in Perfumery Products

THE ETABLISSEMENTS

ANTOINE CHIRIS

ANTOINE CHIRIS LIMITED
TRADE MARK

ARE NOW THE LARGEST MANUFACTURERS OF

HYDRATE OF CHLORAL

British Branch:
ANTOINE CHIRIS, Ltd., 3 Drapers Gardens,
Throgmorton Avenue, London, E.C. 2.



Extensively Advertised
in the leading Journals

Ess Viotto
for the Hands

20/-	38/-	54/-
2/6	4/9	6/9

(P.A.T.A.)

COURVOISIER'S

'C.C.'
PERFUMES
Without Spirit

30/- - **84/-** per doz.
3/9 - **10/6** each.

(P.A.T.A.)

Showcards can be supplied on application.

If you will assist us in pushing our specialities by giving us window and counter shows, please apply for terms.

H. BRONNLEY & Co., Ltd.
Soap Makers & Perfumers, **LONDON, W.**

BRITISH DYESTUFFS CORPORATION

LIMITED

BDC

TRADE-MARK

MANUFACTURERS of

PHARMACEUTICAL and PHOTOGRAPHIC SPECIALTIES

Sales Office—70 Spring Gardens, MANCHESTER.

Salicylic Acid, B.P.

Sodium Salicylate, B.P.

Acetanilide, B.P.

HOLT, THOMPSON & Co.
LIMITED,
Fine Chemical Manufacturers,
Binns Road, LIVERPOOL.

Telephone - Old Swan 413.
Telegrams—"Salol Liverpool."

EPSOM SALTS
Druggist & Commercial Qualities.

ZINC SULPHATE
(White Copperas).

ZINC CHLORIDE
Fused, Granulated and Liquid.

GLAUBER SALTS

PROMPT & FORWARD DELIVERIES.
INQUIRIES SOLICITED.

William Blythe & Co. Ltd.
Chemical Manufacturers,
Church, Lancashire.

PURE AND RELIABLE PHARMACEUTICAL PREPARATIONS

CIBA BRAND

"CIBA"

SPECIALITIES.

DIGIFOLIN	DIAL	PERISTALTIN
EUCLOTTIN	DIDIAL	LIPOIODINE
FORTOSSAN	PHYTIN	FERROPHYTIN
ELBON	VIOFORM	SALEN

INQUIRIES INVITED.

CHEMICALS.

PHENOLPHTHALEIN	PHENACETIN	METHYLENE-BLUE
ICHTHYOL AMMON.	PYRAMIDON	CREOSOTE CARB.
GUAIACOL CARB.	PIPERAZIN	POTASS. SULPHOG.
GUAIACOL LIQ.	PHENAZON	TANNIN ALBUMIN.
BARBITON, Etc.	YOHIMBIN, Etc.	ASPIRIN, Etc.

WRITE FOR LIST.

PHOTOGRAPHICS.

DEVELOPERS.

Diamidophenol. Metagol. Glycin. Pyro's. Paramidophenol.

SOLUTIONS.

Metagol. Metagol-Hydrokinone. Paramidophenol. Glycin.

PRICES ON APPLICATION.

BRAND.

Sole Concessionaires for the British Empire

THE CLAYTON ANILINE COMPANY LTD
(PHARMACEUTICAL DEPT)
68½ Upper Thames Street London E C 4

Phone 333–334 Hop

FOR

Chemicals

Pharmaceutical & Technical.

Sole London Agent: CHRISTIAN J. MOHN'S NORWEGIAN COD LIVER OIL.

F. W. POWELL (M.P.S.),
85 Blackfriars Road, London, S.E.1.

Tel. Add. :—
"Aniseed, Friars, London."

BUSH, BEACH & GENT, Inc.
10 Union Court, Old Broad Street,
LONDON, E.C.2.

Telephone: London Wall 1451.
Telegrams: "Beafredma, London."
AND AT NEW YORK.

THE People for:

Acid BUTYRIC
97–98%
Acid SALICYLIC
B.P. and Technical.

Write for Quotations.

WHOLESALE ONLY.

THE AMERICAN COMMERCE CO. LTD
19, St. Bride Street, London, E.C.4

HYPOSULPHITE SODA (American).
POTASH ALUM (Crystal and Powder).
SAL AMMONIAC Prompt Shipment.
BARIUM CHLORIDE Spot.
TOLUOL Prompt Shipment.
ACETIC ACID, all grades
Edible and Technical.

109/20

Telegrams & Cables: "Amcomco London" Phone: Holborn 1640, 1641.

ALKALOIDS
FINE CHEMICALS
OPIUM DERIVATIVES

SALICIN
CAPSICIN
CANTHARIDIN
PODOPHYLLIN
HYOSCYAMINE
HOMATROPINE
JALAP RESIN
IRIDIN
ALOIN
GINGERINE
LITHIA SALTS
SCAMMONY RESIN

MORPHINE
CODEINE
STRYCHNINE
CAFFEINE
EMETINE
THEOBROMINE
CHLOROFORM

OPIUM
TELA VESICATORIA
VERATRINE
ATROPINE
CHRYSAROBIN
DIAMORPHINE
EMETINE
BISMUTH IODID
EMP. CANTH. LIQ.
ETHYL MORPHINE HYDROCHLOR.
ERGOTIN

T. & H. SMITH LTD

BLANDFIELD WORKS : 25 CHRISTOPHER ST. : 37 WASHINGTON ST.
EDINBURGH : LONDON, E.C. 2 : GLASGOW

For Prompt Delivery.

Amyl Butyrate. Butyric Ether.

Capsicine. Gingerine.

J. F. MACFARLAN & Co.,

EDINBURGH & LONDON.

Established 1775.

ALFRED WHITE & SONS, Ltd.

Manufacturing and Export Chemists,

28-31 ALLEN STREET, GOSWELL ROAD, LONDON, E.C.1.

ACIDS { Acetic. Butyric. Dipping. Hydrochloric. Nitric. Sulphuric.

TELEPHONE: CLERKENWELL 1315. TELEGRAMS: "ETHER-METHYLATED, SMITH, LONDON."

TARTARIC ACID
CREAM OF TARTAR
CITRIC ACID

J. KHAMBATA & CO.

3 & 4 Ct. Winchester St.,
LONDON, E.C.2.

Telephone: London Wall 5388.
Telegrams:
Foreign—"Jehangir London."
Inland—"Jehangir, Ave, London."

BENZOATES

WORKS
LONDON &
MANCHESTER

Phone: London Wall 7781

SUPERFINE QUALITIES

ACID BENZOIC B.P.
AMMON. BENZOATE B.P.
LITHIUM BENZOATE.
SODA BENZOATE B.P.

BENZOATES LIMITED
70 FINSBURY PAVEMENT
Telegrams Hydracetal London LONDON, E.C.2

FOR
Acids SULPHURIC HYDROCHLORIC NITRIC
Resorcin
Mercurials
Cascara Bark
Saccharin
Chloral Hydrate

Ask BERK

F. W. BERK & CO., Ltd.
1 FENCHURCH AVENUE, LONDON.
Works—STRATFORD and MORRISTON.
Telephone: 4032 Ave. Telegrams: "Berk, Phone, London."

CREAM OF TARTAR
99/100% B.Ph.
Finest Essential Oil Lemon,
New Crop
We have large consignments for sale and are quoting particularly favourable prices.
C. W. FIELD, Ltd.,
92 Wood Street, LIVERPOOL.

'ROCHE' PRODUCTS

ALKALOIDS

ARECOLINE HYDROBROMIDE
CAFFEINE AND SALTS
COCAINE HYDROCHLORIDE
COLCHICINE AND SALTS
ESERINE AND SALTS
HYOSCINE HYDROBROMIDE
PILOCARPINE AND SALTS
SPARTEINE SULPHATE
STRYCHNINE AND SALTS
THEOBROMINE AND SALTS
YOHIMBINE HYDROCHLORIDE

FINE CHEMICALS

AMIDOPYRINE
BARBITONE
PHENAZONE
SILVER PROTEINATE
SILVER NUCLEINATE
TANNIN ALBUMINATE

'Roche' Specialities

'AIROL'
'DIGALEN' 'IODOSTARIN'
'OMNOPON'
'SEDOBROL' 'SPASMALGIN'
'THIGENOL' 'THIOCOL'

THE HOFFMANN-LA ROCHE CHEMICAL WORKS LTD.,
7 & 8 IDOL LANE, LONDON, E.C.3.

A. JOHNSON & CO. (LONDON) LTD.

3 GRACECHURCH ST., LONDON, E.C. 3.

Telegrams: "AGENTICUM, LED, LONDON." Telephone: AVENUE 1098.

ESSENTIAL OILS.

EUCALYPTUS OIL B.P.
Strengths 70-75 %
75-80 %

EUCALYPTUS AMYGDALINA

,, CITRIODORA

EUCALYPTOL

SANDALWOOD OIL—AUSTRALIAN

Pharmaceuticals, Photographics, etc.

ACID BENZOIC
,, ACETYL-SALICYLIC
,, DIETHYLBARBITURIC
,, LACTIC
,, PYROGALLIC-RESUB.
,, TANNIC, LIGHT
BROMIDE of POTASSIUM
,, ,, SODA
,, ,, AMMON.
ANTIPYRINE
AMIDOPYRINE
AMMON. ICHTHOSULPH.
CALCIUM LACTATE
CREOSOTE PURE
CREOSOTE CARBONATE
HEXAMINE
HYDROQUINONE
METOL
PARALDEHYDE
PHENOLPHTHALEIN
RESORCINE
THEOBROMINE
SULPHUR PRECIP.

BRANCHES: Stockholm, Gothenburg, Malmo, Copenhagen, Paris, New York.

Telephone: Central 10238.
Telegrams: "Diluggo. Bilgate. London."

CHARLES LANE & SONS

7 & 8 Idol Lane, LONDON, E.C.3

EUCALYPTUS OIL

B.P. 70/75%

STOCKS IN LONDON

GELATINES

SAMPLES AND QUOTATIONS FOR WHOLESALE QUANTITIES.

Fine Pharmaceutical and Heavy Chemicals.

Established 30 years.

ASTOR BOISSELIER & LAWRENCE,

LONDON & NEW YORK.

Importers, Exporters & Merchants of

CRUDE DRUGS

of every description.

Speciality

AMERICAN CRUDE DRUGS

We can quote favourably from Stock or for forward delivery.

5/6 St. Dunstan's Hill,

LONDON, E.C.3.

Cables: "NEUFALINE LONDON." Phone: AVENUE 1993.
Codes: A B C, 5th, and Lieber's.

THOMAS AND MORSON SON LTD.

IODINE PREPARATIONS
Quinine · Ethyl · Carbonate
BISMUTH SALTS

OFFICES, 47, GRAY'S INN ROAD LONDON W.C.1

EST. 1821

WORKS, SUMMERFIELD WORKS PONDERS END MIDDLESEX

BURKETT, SHARP & CO., LTD.
DRUGS 21, MINCING LANE, LONDON, E.C.3 CHEMICALS

ESTABLISHED 1772
HENRY'S CALCINED MAGNESIA
Continues to be prepared with scrupulous care, in the greatest chemical purity by
Messrs. THOMAS & WILLIAM HENRY, 11, East Street, St. Peters, Manchester.
And is sold in Bottles, authenticated by a stamp bearing their name. Trade Mark, "Henry's Calcined Magnesia."
New York: Messrs. SCHIEFFELIN & Co. William Street. PRICE 2s. 9d. Paris: Messrs. ROBERTS & Co. 5, Rue de la Paix.

CELLULOSE ACETATE TRIPHENYLPHOSPHATE
POWDER ASPIRIN (B.P.) TABLETS ACETIC ANHYDRIDE
TRICRESYL PHOSPHATE

IMMEDIATE DELIVERY of the above by the MANUFACTURERS—
The BRITISH CELLULOSE & CHEMICAL MANUFACTURING CO., Ltd.
8 WATERLOO PLACE, LONDON, S.W. 1.
WORKS: SPONDON, DERBY, AND WILLESDEN.
Telephone: REGENT 4045. Telegrams: "CELLUTATE LONDON."

Telephones: (Head Office), AVENUE 1729 (3 lines). (General Chemical Dept.), AVENUE 6998 (2 lines).

CHAS. PAGE & CO., Ltd.,

Telegrams: "PAGANINI LONDON."

47/51 KING WILLIAM STREET, LONDON, E.C. 4.

Central 1863 (2 lines).

And at 26 BROWN STREET, MANCHESTER.

"PAGANINI MANCHESTER."

OFFER AT FIRST HAND:

ACID BENZOIC
" GALLIC
" CITRIC
" SALICYLIC
" TANNIC
" TARTARIC
BENZO NAPHTHOL
HEXAMINE
HYDROGEN PEROXIDE
METHYLENE BLUE
NAPHTHALINE (Marbles and Flakes)
PARALDEHYDE
PHENACETINE
PHENOLPHTHALEIN
POTASSIUM PERMANGANATE
RESORCIN
SODIUM BENZOATE
" CARBONATE
" HYPOSULPHITE
" SALICYLATE
" SULPHITE
TARTRAZINE
VANILLIN

WHOLESALE QUANTITIES ONLY.

Special Offer this issue

GUMS & WAXES

CHLORIDE BARIUM.
OXALIC ACID.
ACIDS FOR EXPORT.
FORMIC ACID.
GUM TRAGACANTH.
CHROME OXIDES.
GELATINES.
GLUES.
INKS, SIZINGS, FINISHES.

CHEMICALS

GUM ARABIC.
BORAX.
BORIC ACID.
LOGWOOD PRODUCTS.
BICHROMATES.
SODA HYPO.
IRISH MOSS
DYEWOOD AND TANNING EXTRACTS
OILS, CHROME, AND FAT LIQUORS.

GOUGH, KIDSTON & CO.
12 BERMONDSEY SQ., LONDON, S.E.
City Office: 43-45 Great Tower Street, E.C.
Tel.Add.: "Oughidston, Phone, London." Phone: 2029 Hop.

Pyrogallic Acid Gallic Acid

Manufactured by J. L. ROSE
At ABBEY ROAD, BARKING, LONDON, E.
Wholesale and Export Only.

TARTARIC ACID

Manufactured by B.P.
LANKSHEAR, WICKSTEAD & CO., Ltd.,
Botany Mill, WOODLEY, Eng.
All Inquiries to London Office, 557 Mansion House Chambers, 11 Queen Victoria Street, E.C. 4. Telephone: City 7546.

Canada Balsam

A. JOHNSON & CO. (London) Ltd.
3 GRACECHURCH ST., LONDON, E.C.3
Phone: Avenue 1098.

PHARMACEUTICAL
PRODUCTS.
COLOURS.
SYNTHETIC
PERFUMES.
ESSENTIAL OILS.
COMPOUNDS.
ETC. ETC.

A NEW PERFUME FOR CHEMISTS—

"ROSE SUPRÊME DE FRANCE"

R. LANE-HALL & CO., Limited,
1 STEWARD STREET, LONDON, E.1.

Telephone:
AVENUE 5183.

Telegrams:
"ERLANALL,
ALD, LONDON."

ORION ★ ★★★ ★ BRAND

SACCHARIN 550 STRENGTH

Acetanilid
Amidopyrin
Aspirin
Caffeine
Citronellol
Coumarin
Heliotropin
Nerolin
Phenacetin
Phenazone
Potass. Permanganate
Salicylate of Sod.
Salicylic Acid
Salol
Terpineol
Thymol
Vanillin

Sole Importers:
LINTON, HUBBARD & ANDREW, 72-75 Fenchurch Street, LONDON, E.C. 3.
Telephone 1893 Avenue. A B C and Lieber's Codes. Cables and Telegrams: "Linteolo, London."

SPECIAL NOTICE.

Having regard to the fact that large quantities of so-called Casein containing a considerable proportion of adulterants are being offered at low prices by unscrupulous persons, we beg to inform our clients that we guarantee the purity of all Casein sold under our registered brand "ALBUMOZO." We shall at all times be glad to examine and report upon samples of Casein free of charge for our customers.

THE BRITISH CASEIN CO. (1911) LTD., 24 Great Dover Street, Borough, London, S.E.1.
Inland Telegrams: "Albumozo, Sedist." Cables: "Evapolait" & "Albumozo." Telephone: Hop 309

PHARMACEUTICAL & HEAVY CHEMICALS.

ESSENTIAL OILS. ESSENCES. STEARIC ACID.
PRECIPITATED CHALK. TALCUM POWDER.

TOILET PREPARATIONS MADE FOR THE TRADE.

WE SOLICIT YOUR INQUIRIES.

A. CONNELL & CO., 3 Jewry St., LONDON, E.C.3

PHONE: AVENUE 1945.

L. B. HOLLIDAY & CO., LTD.

L·B·H & Co. TRADE MARK COPYRIGHT REGISTERED

ARE MAKING AND CAN GIVE PROMPT DELIVERIES OF:—

SALICYLIC ACID B.P.

ACETYL-SALICYLIC ACID B.P.
(ASPIRIN)

Finest Quality
Best Appearance
Lowest Price

TARTRAZINE

AURAMINE II.

METHYLENE BLUE, Z.F. CONC.

METHYLENE BLUE (Medicinal Quality).

SEND YOUR INQUIRIES TO:

Sales Department,

HUDDERSFIELD.

Telephone: 1840 HUDDERSFIELD (4 Lines).
Telegrams: "DYEWARES HUDDERSFIELD."

A. S. PRICE & CO., Ltd.

Manufacturing Chemists,
BLACKHEATH, BIRMINGHAM.

SPECIAL OFFERS.

Subject unsold. Net Cash. F.O.R. or delivered locally.

Bottles charged extra: 1-lb. @ 6d. each, Winchesters @ 1/6.

GLYCERINE B.P. 1/9 lb.; Winchesters @ 1/8; 1 cwt. @ 135/-.

POT. NIT. PULV. (Refined 99½%) 1 cwt. 75/-; 5 cwt. 70/-; 1 ton 69/-.

OL. EUCALYPT. B.P., 1 lb. 4/-; Winchesters @ 3/9; 28-lb. tins @ 3/6; Orig. Cases @ 3/5.

OL. ANISI. 1 lb. @ 6/-; Winchesters @ 5/6; Orig. Lead @ 5/4.

OL. LIMONIS. 1 lb. @ 8/6; 7 lb. @ 8/3 (in 1-lb. bottles).

SAFROL, 1 lb. @ 7/9; 7 lb. @ 7/6.

LICORICE, 2-oz. Sticks, 7 lb. @ 3/9; 28 lb. @ 3/6; 1 cwt. cases @ 3/-.

ACID TART. PULV. 3/6 lb.; 1 cwt. @ 3/4; 5 cwt. @ 3/2.

CURRIE POWDER, Finest, 1/6 lb.; 7 lb. @ 1/3; 1 cwt. @ 1/1.

POT. PERMANG. 5/- lb.; 7 lb. @ 4/10; 100-lb. kegs @ 4/7.

ZINCI OXID. 1 lb. @ 1/-; 7 lb. @ 11d.; 28 lb. @ 10d.

Patents and Proprietaries at Current Prices.
Prompt deliveries of Glaxo at Makers' Prices.
Inquiries solicited.

Telegrams: "*Custard, Blackheath, Staffs.*" *Telephone*: *Cradley 174.*

Alliance Drug & Chemical Co., London

Offices: 34 LEADENHALL STREET.

NOTE.—Only terms, Net Cash with order without discount, or orders accepted through London Merchants or Bankers.
Goods carriage forward: all packages free; Export cases extra.

*Acid Boric Pulv., 2 cwt. @ 88/- cwt.; 1 cwt. @ 89/6 cwt.
Bismuth Carb., 14 lbs. @ 17/6 lb.; 3 lbs. @ 18/2 lb.; 1 lb. @ 18/4 lb.; subnit., 1/11 lb. less
Camphor, English Flowers, "not artificial," 5 lbs. @ 12/- lb.; ½ oz. or ¼ oz. 7 lbs. @ 12 3 lb.
*Dec. Aloes Co. Conc. 1-2, 6 lbs. @ 3/3 lb.
Sinecroco, 6 lbs. @ 1/11 lb. [lb.
*,, Cinchonæ (Rubræ) Conc. 1-7, 6 lbs @ 4/-
Fol. Sennæ Tinnev., 1 cwt. @ 11d. lb.; 7 lbs. @ 1/- lb.; English Ground, 56 lbs @ 1/4 lb.; 7 lbs. @ 1/5 lb.
Fuller's Earth, fine powder or lump, 5 cwt. @ 13/- cwt.; 1 cwt. @ 14/-.
*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 2/- lb.; 1 lb. @ 2/6 lb.
*,, Ammon. Aromat., 6 lbs. @ 1/3 lb.
*,, Antim Chlor. Pure, 8 lbs. @ 1/- lb.
*,, Arsenicalis, B.P., 7 lbs. @ 6d lb.; 1 lb. @ 11d lb.
Ol. Anisi, E.I., 66 lbs. @ 4/9 lb.; 14 lbs. @ 5/- lb.; 4½ lbs. @ 5/2 lb.; 1 lb @ 5/ lb.
Potass. Chlor. Pulv., 7 lbs. @ 1/5 lb.
Potass. Cit., B.P., 7 lbs. @ 6/10 lb.
Sodii Salicyl. Pulv., 2 lbs. @ 4/8 lb.
*Spt. Æther Nit., P.B., 4½ lbs. @ 6/3 lb
*,, Ammon. Aromat., P.B., 5 lbs @ 5/2 lb.
*,, Chloroform, P.B., 5 lbs @ 6/8 lb.
*Syr. Scillæ, P.B., 7 lbs. @ 1 5½ lb,
*,, Sennæ, P.B., 7 lbs. @ 1 11 lb.
,, Tolut. P.B., 7 lbs. @ 1 6 lb. [Aquos. 1/10 lb.
*Tinct. Nucis Vom., B.P., 5 lbs. @ 4/10 lb.
*Tinct. Opii, B.P., 5 lbs. @ 6/- lb.
*Tinct. Opii Aquos., 5 lbs. @ 4/8 lb.
*Tinct Quininæ Amm., B.P., 5 lbs. @ 5/- lb.
Ung. Sulphuris, B.P., 28 lbs. @ 2/3 lb.; 7 lbs. @ 2/5 lb.
,, Zinci Oxid. Benz., P.B., 28 lbs. @ 2/3 lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.
N.B.—In comparing prices it must be borne in mind that bottles and packages are free, and that same will be credited if returned.

EMETINE

Hydrochloride, Hydrobromide

EMETINE-BISMUTH-IODIDE,
ATROPINE, STRYCHNINE

CAFFEINE, THEOBROMINE, NICOTINE

QUININE SALTS

IODINE & BROMINE PREPARATIONS

Mercurials, Refined Camphor

MORPHINE AND CODEINE
Alkaloids and Salts

Opium and all Opium Derivatives

SANDAL WOOD OIL

Whiffen & Sons, Ltd., are Sole Consignees of the

Mysore Government

Standard Product

Complies with the requirements of all Pharmacopœias

Samples can be had on application.

Whiffen & Sons, Ltd., Battersea, London, S.W.11

Telegrams: "Whiffen London." Telephones: Battersea 1234, 1235 and 1236. Codes: A B C, 6th, Lieber's and Bentley's.

Medicated Pastilles

(Pharmaceutical Quality)

ANTISEPTIC.
EUCALYPTUS OIL.
GLYCERINE.
GLYCERINE & BLACK CURRANT.
GLYCERINE & PAREGORIC.
GLYCERINE & HONEY.
LINSEED, LICORICE & CHLORODYNE.
MENTHOL.
MENTHOL & EUCALYPTUS.
PINE, MENTHOL & EUCALYPTUS.
PYNOLINE.

1-lb. Tins 3/2 lb.
4-lb. & 8-lb. Canisters 3/- per lb.
4-oz. Tins 11/6 doz.
2-oz. Tins 6/- doz.
1-oz. Tins 3/6 doz.
Packages included.

Immediate Dispatch from Stock.

JULES DENOUAL & Co.,
CARLTON WORKS, ASYLUM ROAD,
LONDON, S.E. 15.

CAMOMILES

WHOLESALE ONLY.

F. J. CARMICHAEL & CO.,
17 Water Lane, LONDON, E.C.3.

REAL SILVER LEAF

As supplied for many years to the leading Houses for Pills, Cachous, &c.

We also supply

GOLD LEAF AND GOLD POWDERS

WHOLESALE ONLY.

E. WINTER & CO. LTD.
Head Office: 64 Cheapside, London, E.C. 2.
TELEPHONE: Central 985.

HOW DO YOU PACK YOUR

EPSOMS, SOD. BICARB. GLAUBERS & ACID. BORIC ?

Is each Packet an Advertisement for You ?

Does it pay You to let your highly paid Assistants pack these lines ?

OUR PRICES ARE :

	2-oz. Gross.	4-oz. Gross.	½-lb. Gross.
EPSOM SALTS	13/-	19/6	32/6
GLAUBER SALTS	13/-	19/6	32/6
BICARBONATE OF SODA	12/6	18/-	30/-
BORACIC ACID	26/6	47/6	85/-

These prices are for our FIRST QUALITY STYLE.

IF YOU COMPARE OUR PRICES, PLEASE COMPARE OUR PACKING ALSO.

WE SHALL BE PLEASED TO SEND SAMPLES.

NAME AND ADDRESS FREE ON ORDERS OF 15/- OR OVER

(If customers will give us their printer's name we can have the labels printed in their usual style to match their other labels.)

CARRIAGE PAID ON ORDERS OF £3 OR OVER.

EVANS, GADD & CO., LTD.

EXETER——————and——————BRISTOL

LET US QUOTE YOU FOR

ASPIRIN AND CASCARA SAGRADA TABLETS

In large or small quantities, in Bottles or Bulk.

Chemicals & By-Products, Ltd.

INCORPORATING

The Cooper Laboratory

WATFORD.

ESTABLISHED 1871 Telegraphic Address: "Toothache Sheffield."

1,000,000

ASPIRIN TABLETS

(British)

We have made and sold over a million gr. v. Aspirin Tablets and never had a complaint of any description.
Daily we receive letters congratulating us on turning out the best Aspirin Tablet on the market.

6/- per 1000, net cash with order.

SACCHARIN TABLETS

(British)

·3 gr. 550 in 1 gr. tablet.
Standardised and guaranteed as to strength.
In Bottles, or Damp-proof Envelopes of 100s, 200s and 500s and in Bulk.
Special quotations for quantities.

All drugs are tested, and tablets made in our own factories and guaranteed by

G. CARR & Co., Ltd.

Manufacturing Chemists,

WILKINSON LANE, SHEFFIELD.

Aspirin Tablets

We use the best Aspirin only in their manufacture. We guarantee each tablet to contain 5 grains Aspirin.

Bottles of 25	...	4/6 per doz.
,, 50	...	7/6 ,,
,, 100	...	13/6 ,,
Bulk ...	...	8/- per 1000

Chemists' own name and address on all packed goods.

Phenacetin Tablets Cascara Tablets
Soda-mint Tablets Lemonade Tablets
etc., etc.

We manufacture for the trade. Wholesale buyers please write for quotations for bulk tablets of all kinds.

Western Tablet Co. Ltd.

106 Church St., Kensington, W. 8.

L. ROZEN & CO.

36/37 MINCING LANE, LONDON, E.C.3

BRANCH OF THE RUSSIAN TRUST & FINANCE CO., LTD. (*A BRITISH HOUSE*)

Telegrams: "Ocnezorle." Telephones: Avenue 3263/4, 5986, 5440.

MERCHANTS & MANUFACTURERS

All kinds of

(1) Botanicals and Crude Drugs
(2) Spices
(3) Gums
(4) Medicinal Seeds
(5) Fine and Heavy Chemicals
(6) Soaps
(7) Essential Oils

Such as

(1) Ergot, Gentian, Henbane, Henna, Insect Flowers, Licorice, Lycopodium, Scammony, Senega, Senna, etc.
(2) Cinnamon, Cloves, Nutmegs, Pepper, etc.
(3) Aloes, Arabic, Tragacanth, etc.
(4) Aniseed, Cardamoms, Coriander, Cumin, Fenugreek, Wormseed, etc.
(5) Phenacetin, Saccharine, Santonin, Bicarbonate, Bichromate, Soda Ash, etc.
(7) Anise, Birch Tar, Coriander, Rose, etc.

Representatives and Branches in almost every European Country, and in the United States of America, India, Egypt, China, Japan, and many others.

WE ALWAYS HOLD SUBSTANTIAL STOCKS.

Victor Blagden & Co.,

4 Lloyd's Avenue, London, E.C.3

Telegrams: "Blagdenite, Fen London."
Telephone: Avenue 6353 (4 lines).

Middlesbro'. Paris. Sydney.

ACETIC ACID
FORMALDEHYDE
TRIOXYMETHYLENE
NAPHTHALENES
OXALIC ACID
POTASSIUM BROMIDE

Supplies of every description of Coal Tar, Ammonia and Cyanogen Products.

RAOUL FRERES

can offer to advantage the following:

Acid Salicylic P.B.	Metol pure 100%
,, Benzoic P.B.	Pot. Bromid. P.B.
Antipyrin	,, Permang. P.B.
Ammon. Bromid. P.B.	Phenazone
Coumarin	Phenacetine
Creosote Carbonate	Pyramidon
Goa Powder	Quinine Hydrochlor. P.B.
Guaiacol Carbonate	,, Sulphate P.B.
Hexamine	Resorcin, pure crystals
Hydroquinone	Soda Sulphite, pea crystals

IMMEDIATE DELIVERY.

6 HOLBORN VIADUCT - - - LONDON, E.C.1

Telephone: Central 8728.

W. SUTER & CO.

12 Edmund Place, LONDON, E.C.1.

VETERINARY PREPARATIONS.
GLYKYLOL, DOLAFORM, PERFARON.

INQUIRIES SOLICITED.

Telegrams: "ELMITOLFO, London." Telephone: CITY 5792.

TABLETS *by* POST

PERFECTLY MADE.

GUARANTEED QUALITY.

DURING the past four years we have proved, to the satisfaction of thousands of Chemists at home and abroad, that there is a real need for a Cash Mail Order trade in Compressed Tablets of all kinds.

We have recently re-organised our Tablet Compressing Department and it now comprises one of the finest plants in the country; being worked entirely by electricity, perfect cleanliness is ensured. It is in charge of a practical operator of 20 years' experience in the Art of Tablet Making, and the Tablets turned out are in every respect second to none, irrespective of price.

Samples will be gladly sent of any line in which you are interested, and special quotation for quantities.

We give below a short list of Tablets which are in regular demand, but can supply all other kinds at lowest rates.

We also compress CUSTOMERS' OWN MATERIAL or make up Tablets from PRIVATE FORMULÆ at short notice; particulars upon request.

PER DOZEN SCREW-CAPPED BOTTLES CONTAINING:

	25's.	50's.	100's.	per pound	1000.
Aspirin grains 5	4/6	7/6	13/6	—	6/6
Bismuthated Magnesia	3/-	5/-	8/6	—	3/6
Calomel grains 1	3/3	4/6	7/3	—	3/-
Formalin and Mint	—	7/-	—	3/-	—
Formalin and Cinnamon	—	7/-	—	3/-	—
Phenacetin	8/-	14/-	26/-	—	18/-
Phenacetin and Caffeine	8/3	14/6	27/-	—	20/-
Phenolthalein grains 2	5/3	8/9	15/-	—	9/9
Pot. Chlor. grains 5	3/9	5/3	7/9	3/-	—
Soda Mints with American Mint	3/- for 30's			1/6	—
Sulphur with Cream of Tartar	—	—	—	2/3	—
Peppermint Lozenges with American Mint	—	—	—	2/6	—
,, ,, Multum in Parvo	—	—	—	3/6	—
Brompton Lozenges	—	—	—	2/6	—
Pine Tree Lozenges	—	—	—	2/3	—

SACCHARIN TABLETS, guaranteed	100's per doz.	200's per doz.	per pound.
½ grain 330 in 1	9/-	16/6	46/-
⅓ grain 330 in 1	7/-	13/6	34/6
¼ grain 330 in 1	6/-	11/-	27/6

Less a Quantity Discount on Saccharin of 6/- per gross, 1/- per lb. for 7 lbs. and 2/- for 14lbs.

Recent Unsolicited Appreciations—

"Greatly liked by all who use them. Customers say they are the best they have used."

"They are splendid in every way—nice shape, clean, and well made. I have sold a good many in the last four years. I have tried about eight different makes, and must say frankly that none have proved entirely satisfactory until I tried yours."

ASK FOR SAMPLES.

We are Proud of our QUALITY.

Terms:—Cash with Order, Carriage Paid on £2 value, Packages Free.

T. H. WALTON & Co. Ltd.,

Manufacturing Chemists,

Telegrams: "Walton, Chemist, Batley." BATLEY. Telephone: Dewsbury 640.

PEPSIN-STEARNS, B.P. & U.S.P. DIGESTIVE FERMENTS

We invite your attention to our comprehensive line of Pepsins and allied products:

Pepsin, New Method (spongy), 1:2500, 1:3000, 1:6000
Pepsin, powdered, 1:2500, 1:3000, 1:6000, 1:10,000
Rennin
Diastase, powdered, various strengths
Pancreatin
Haemoglobin
Thyroid Glands, B. P. & U. S. P.
Oxgall, powdered
Beef Peptone, powdered or paste
Peptonum Siccum—purified beef peptone for bacteriological purposes



Prompt Service

FREDERICK STEARNS & COMPANY

Home Offices and Laboratories
DETROIT, MICHIGAN, U. S. A.
Windsor, Ont. New York San Francisco Sydney, N.S.W. Calcutta: 8 Waterloo St.

Manufacturers of Digestive Ferments, Pharmaceutical Specialties, Buyer's Packed Goods, High-Class Toilet Requisites, Private Formula Products. Inquiries invited.

Cable Address: "CELAITCH NEW YORK."
Codes: ABC, Fifth; Bentley's Improved Private.

CHAS. L. HUISKING, INC.

5 Platt St., New York City,

BROKERS & COMMISSION MERCHANTS,
DRUGS : CHEMICALS : OILS : SPICES.
PROPRIETARY MEDICINES, DRUGGISTS' SUNDRIES.

Buying and Selling Agents for leading Houses in all parts of the World.

European Manufacturers desirous of placing their goods in the American market would do well to communicate with us. Our outlet for goods is very large.

London Correspondents—CHAS. L. HUISKING, LTD., 47 Lime Street, London, E.C.3.
Cable Address: "CELAITCH LONDON."

SENEGA ROOT

H. R. LATHROP & CO. Inc.

Drug Merchants

CABLE ADDRESS: "SISCOSTAL"

A B C — 5TH EDITION
SAMPER 2A EDICION
BENTLEY'S 5-LETTER

116 BEEKMAN STREET,
NEW YORK, N.Y.

BUY FROM THE ACTUAL DISTILLERS

Eucalyptus Oils.

1. **CINEOL B. P.** ($C_{10}H_{18}O$)
2. **PEPPERMINT-KETONE**
   Sp. Gr. 0.935 to 0.940 Ref. Ind. 1.480 to 1.483 Opt. Rot. 0°-1°
3. **PHELLANDRENE** ($C_{10}H_{16}$)
   Ex Ol Eucalypti. All grades Eucalyptus Oils. B.P., U.S.P., Standard and Industrial.
4. **E. CITRIODORA**
5. **E. MACARTHURII**

We are prepared to quote C.I.F. by cable or Ex London stocks, when available.

Gillard Gordon, Ltd.
SYDNEY, - AUSTRALIA.
Cable: "GUMLYPTA," Sydney.

Cheapest House for

Indian Drugs, Senna Pods, Senna Leaves, Calumba Roots, Nux Vomica, Black Pepper, Folia, etc.

Sample & Price on application.

MEHTA BROS.
Head Office:
Shamset Street, Market, Bombay, India
Branches: Calcutta & Madras. Tel. Address: "Matbar Bombay."

EUCALYPTUS OIL
(RECTIFIED.)

Eucalyptol Content 70/80%
Optical Rotation ... ... 0 to 1
Specific Gravity ... ... '919 to '928
Absolutely Free from Phellandrene.
Quotations by Cable. Wholesale Trade only.

BURNSIDE & COMPANY
Eucalyptus Oil Distillers,
VICTORIA, AUSTRALIA.
New Postal Address— 591-5 Bourke St., Melbourne.
Cables—"Burnside Melbourne."

QUININE AND SALTS

CINCHONIDINE
CINCHONINE
QUINIDINE

SUGAR-COATED QUININE TABLETS & PILLS,
GELATINE-COATED OVAL PILLS

BANDOENG QUININE FACTORIES

BANDOENG-JAVA.
Telegrams—"Kininefabriek Bandoeng."

AMSTERDAM: De Wittenkade 48/50
Telegrams—"Schalkwyk Amsterdam."

SOLE AGENTS FOR THE UNITED KINGDOM—

C. M. & C. WOODHOUSE, 30 Mincing Lane, London, E.C.3.

Telegrams—"Palmiste, Telew, London."

SAMPLES AND PRICES ON APPLICATION.

FOR

QUINIDINE CINCHONINE CINCHONIDINE AND SALTS

ALSO

SUGAR-COATED QUININE TABLETS

MANUFACTURED BY

AMSTERDAM QUININE WORKS.
Wittenkade 48/50, Amsterdam.

APPLY TO

SOLE AGENTS for the UNITED KINGDOM:—

COURTIN & WARNER, 8 Harp Lane, London, E.C.3.

For samples, prices and particulars.

Telegrams: "Accourtiwa, Bilgate, London."
Telephone No.: Avenue 2235.

DUTCH

Sugar of Milk.

"THE BEST"

HOLLANDSCHE MELKSUIKERFABRIEK

Amsterdam.

Theobromine Sodio-Salicylate

(chemically the same as Diuretine).

Caffeine

Theobromine Pure Alkaloid

Theobromine Soda Acetate

Substitute for Agurine.

Societeit voor
Chemische Industrie Katwijk
KATWIJK-AAN-ZEE,
HOLLAND.

"PHARMACIA" BRAND.

FLUID EXTRACTS AND TINCTURES,
Standardised
ABSOLUTE ALCOHOL,
COLLODIONS,
All ex our bonded laboratories.

ROYAL PHARMACEUTICAL Co. Ltd.,
AMSTERDAM (Holland).

Agent: A. C. HENRY, 19 St. Dunstan's Hill, LONDON, E.C.3.

Chemical Works Madoery, Ltd.

BASLE, SWITZERLAND.
Established 1902. Swiss Firm.

MORPHINE HYDROCHLORIDE: Crystals and Cubes.
DIACETYLMORPHINE HYDROCHLORIDE
COCAINE HYDROCHLORIDE

We are large manufacturers of the above and have a constant supply. Please ask for prices.

Agent for United Kingdom: E. M. BATCHELAR,
Temporary Offices: 39 NORTH END, CROYDON.
Telephone: 713 Croydon.

GIGNOUX FRÈRES & BARBEZAT,

Chemical and Pharmaceutical Products, Drugs & Herbs.

DECINES, near LYONS, France.

HYDROGEN PEROXIDE 12 vol., 20 ,, 100 ,, } for Export.

ETHERS
CHLOROFORM
CHLORAL HYDRATE
COLLODIONS
SPIRITS—ELIXIRS—
ALCOHOLIC TINCTURES
PHARMACEUTICAL EXTRACTS
OF ALL KINDS.

Fluid Extracts for Syrups.
American Fluid Extracts.
Semi-fluid Extracts: Belladonna, Ergotine, Gentian, Valerian, Liquorice, etc.
Extracts for Wines and Aperitifs, &c.

VETERINARY EXTRACT OF MALE FERN
24/25% Filicine.
Kills the Liver Fluke & Cures Sheep & Cattle.

METALLINE
Metallic solution for capsuling vials, bottles, &c.

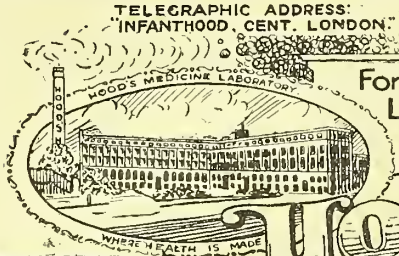
DRUGS & HERBS, FLOWERS, ROOTS, &c.

Arnica	Gentian
Belladonna	Fern
Black Alder	Lime
Lavender	Chamomile

Oak Moss, &c.

LONDON AGENT:
R. ANSAY, 44 Wilson St., Finsbury, E.C.2.
Telephone: London Wall 3103.

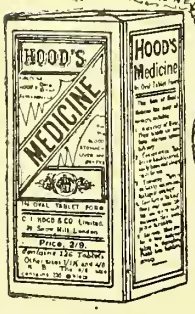
TELEGRAPHIC ADDRESS: "INFANTHOOD, CENT. LONDON."
TELEPHONE No 6778 CENTRAL.



For the Blood, Stomach, Liver and Kidneys.

HOOD'S MEDICINE.

HOOD'S VEGETABLE PILLS.
HOOD'S OLIVE OINTMENT.
HOOD'S MEDICATED SOAP.
ETC. ETC. ETC.



Proprietors: C. I. HOOD & Co LTD.

IF MADE BY HOOD IT'S GOOD

"Cecil House," Holborn Viaduct,
LONDON, E.C. 1.

A Typical Hood's Customer — Well worth your while to satisfy.

"It gives me pleasure to be able to write to you in praise of your Medicine. We use it for the whole family. Having heard some time ago of several marvellous cures by using Hood's Medicine, I decided to give it a trial. The result was splendid, and we have never been without a bottle of it in the house since. I never fail to recommend it to all my friends, as I think no one should be without it."

JAMES EDWARD BALL,
5 Industrial Terrace, Beckett Street, Leeds.

There is No Real Substitute for Hood's. ***On P.A.T.A.***

BEECHAM'S PILLS

WHOLESALE PRICES.

Beecham's Pills:

1s. 3d. size	**10s. 6d.**	per doz. **net.**
3s. 0d. „	**26s. 6d.**	„ „
5s. 0d { new size ... ... contains double the quantity of 3/- box.	**50s. 0d.**	„ „

Beecham's Cough Pills:

1s. 3d. size	**10s. 6d.**	„ „
3s. 0d. „	**26s. 6d.**	„ „

Orders: Minimum quantity £5 value—approximately. | ***Packages FREE. Carriage PAID.***

These Prices are the lowest no matter what quantity is ordered.

TERMS: CASH WITH ORDER.

Cheques to be made payable to **THOMAS BEECHAM**, and crossed "Parr's Bank, Ld., St. Helens."

ÉTABLISSEMENTS CHATELAIN

2 & 2 bis RUE DE VALENCIENNES, PARIS.

Sole Manufacturers of

JUBOL
RE-EDUCATION OF THE INTESTINE.
Constipation, Enteritis, Hæmorrhoids, Indigestion, Skin Blemishes, &c.
Price 5/- per box.

GLOBÉOL
POWERFUL BLOOD TONIC.
Anæmia, Nervous Exhaustion, General Debility, Tuberculosis Convalescence, etc.
Price 5/- per bottle.

PAGÉOL
POWERFUL URINARY ANTISEPTIC.
Cystitis, Prostatitis, Catarrh of the Bladder, Renal Tuberculosis, etc. etc.
Price 5/- and 11/- per box.

JUBOLITOIRES
SCIENTIFIC SUPPOSITORIES
For Hæmorrhoids, Rectitis, Anal Fistula, etc. Anti-hæmorrhagic, Sedative, De-congesting.
Price 5/- per box.

URODONAL
POWERFUL URIC ACID SOLVENT.
Rheumatism, Gout, Arterio-sclerosis. Stones, Gravel, Sciatica, Neuralgia and all Uric Acid disorders.
12/- per bottle.

VAMIANINE
New Scientific Preparation for Chronic Skin Affections, Psoriasis, Eczema, Acne, etc.
Price 11/- per bottle.

SINUBÉRASE
SCIENTIFIC PREPARATION OF LACTIC FERMENTS.
Indicated in Intestinal Disorders, Dysentery, Diarrhœa, Dyspepsia, Enteritis, Typhoid, Skin Eruptions, etc. etc. Price 5/- per bottle.

FANDORINE
Metrorrhagia, Dysmenorrhœa and Lactation, Pains, etc. etc.
Price 5/- and 11/- per bottle.

GYRALDOSE
Antiseptic for local Gynæcological use.
Price 4/- per box (powder)
" 5/- " (tablets)

FILUDINE
SPECIFIC FOR THE LIVER.
Malaria, Diabetes, Cirrhosis, Sluggish Liver, Tuberculosis, etc.
Price 11/- per bottle.

BRITISH AND COLONIAL AGENTS—
Heppells
Pharmacists & Foreign Chemists, 164 Piccadilly, LONDON, W. 1.
Telegrams: "URODONAL LONDON." Telephone: Regent 192.
AUSTRALIAN AGENT: Mr. BASIL KING, Malcolm Buildings, Sydney, N.S.W.
INDIA (SUB-AGENTS): G. ATHERTON & CO., 8 Clive Street, Calcutta.
Stocked by all Wholesalers. *Now being largely advertised.*

GOLD MEDALS: Paris 1889 and 1900.
GRAND PRIX: Turin 1911.

FERDINAND ROQUES, PARIS.

"ROQUES" ATROPINE
"ROQUES" COCAINE
"ROQUES" PILOCARPINE
"ROQUES" SPARTEINE

Manufacturer of Pure Pharmaceutical Chemicals.
ESTABLISHED 1846.
OTHER SPECIALITIES:
Refined Camphor, Iodides, Iodoform, Iodothymol, Bromides, Bromoform, Bismuth Salts.
CACODYLATES. METHYLARSENATES.

SOLE AGENTS FOR U.K.: **W. Charity & Sons, 14 Harp Lane, LONDON, E.C.3.**
Telephone: Avenue 4359. (WHOLESALE ONLY.) Telegrams: "Charity London."
NO. 2 CODES: A B C and LIEBER'S.

Telephones: London Wall 4391, & Bank 275. Cable Address: "TAARINCO, LONDON."

THE EASTERN & RUSSIAN TRADING COMPANY, LIMITED,

8 Drapers' Gardens, Throgmorton Avenue, London, E.C.2.

Representatives and Agents in France, Italy, Germany, Turkey, Palestine, India, Siberia, Japan, and U.S.A.,
General Agents of I. L. GOLDBERG, Petrograd, Vilna, Odessa, Moscow, the exclusive exporter of

SANTONINE

From Russia to the whole world.

Inquiries solicited also for

RUSSIAN CRUDE DRUGS

WORMSEED (Semen Contra)	**LYCOPODIUM**	**ELECAMPANE ROOT**	**GUM AMMONIA**	**HENBANE LEAVES**	**ANISE OIL**
Aniseed	**ERGOT OF RYE**	Liquorice Root	**GUM GALBANUM**	Frangula Bark	Coriander Oil
Elderflowers	Boletus Cervinus	Calamus Root	**GUM TRAGACANTH**	Cantharides	
		Soap Root		Blood Albumine	

STOCKS IN LONDON & AT THE PRINCIPAL AGENCIES.

October 1st.

IMPORTANT NOTICE
OF
WITHDRAWAL OF STOCK LINES

The 1/3 Size of Dr. Rooke's SOLAR ELIXIR
AND
The 5/- Size of Dr. Rooke's ORIENTAL PILLS
will be withdrawn from October 1st.

Stocks for exchange may be returned direct to DR. CHAS. ROOKE, LTD., LEEDS, *or through the usual wholesalers.*

Order CROSBY'S COUGH ELIXIR ***NOW***, and be prepared for the Advertising Campaign of this excellent selling Proprietary, which will commence on October 2nd.
To avoid delay in delivery, orders should be given as early as possible.

Dr. CHAS. ROOKE, Ltd., LEEDS.

THERE'S ONLY ONE

Antiphlogistine
(P.A.T.A.)



IT NETS YOU
25 %.
More on £2 lots.

The Denver Chemical Mfg. Co.
NEW YORK.

Write for Best Terms to the *Sole British Agent*
J. F. Murphy,
41 St. Ann's Rd.
LONDON, E.3.

ALL REACTIONS of the Body Fluids and Tissues are COLLOIDAL.

"Collosols" are pure and stable colloidal solutions, isotonic and isomorphic with the elements of the body.

CROOKES' COLLOSOLS

"Collosols" are tested by ultramicroscopic bacteriological and clinical experiment.

COLLOSOL SULPHUR

Collosol Sulphur is not presented as a substitute for the Spa treatment of such affections where Spa treatment is available, but as a supplement to it. A course of treatment at a Spa can be followed up by the exhibition of Collosol should relapses occur.

For patients who are unable to take a course of Spa treatment, practitioners will find Collosol Sulphur invaluable.

It is prepared in five different forms—for external use and bath medication, for internal administration, for injection, and as a cream, with which the affected part is gently massaged. Also as an oil for the scalp.

Also the following COLLOSOL Preparations:—

ARGENTUM, ARSENICUM, CUPRUM, FERRUM, HYDRARGYRUM, IODINE, MANGANESIUM, PALLADIUM.

Kindly Note Change of Address

Particulars, Literature, and Reports from

The CROOKES' LABORATORIES

22 CHENIES STREET, TOTTENHAM COURT ROAD, W.C. 1.

Telephone: MUSEUM 3663.

THE ANGLO-FRENCH DRUG CO., Ltd.

238a Gray's Inn Road
London, W.C.1.

Telephone: Holborn 1311. Telegrams: "Ampsalvas London."
NEW YORK: 1270 Broadway. MONTREAL: Dandurand Building. PARIS: Rue Clauzel. BOMBAY: P.O Box 460.
West-End Depot: MODERN PHARMACALS (Managing Director, J. G. Gordon, M.P.S.) 48 Mortimer St., W.1.
Telephone: Museum 564.

PHARMACEUTICAL PREPARATIONS.

AMBRINE.
A great advance in the treatment of burns (slight or severe). Gives immediate anæsthesia of pain. Also for Chilblains, Ulcers, &c.

AMIBIASINE.
Compound Extract of Garcinia. Treatment of Amœbic Dysentery.

ANIODOL.
Antiseptic. Disinfectant. Deodorant for Sick Rooms Instruments, Bed-pans, etc.

CRYOGENINE.
(Lumière).
A general Antipyretic Powerful Analgesic.
Supersedes Antipyrin, Phenacetin and Pyramidon.

CUPRASE.
Specially prepared Chemical Colloidal Copper for CANCER. Has given most encouraging results in a good number of cases.

CYTO-SERUM.
Intensive Strycho-Arsenical Medication for Pulmonary Tuberculosis, Syphilis, Pernicious Anæmia, &c.

DIABETIFUGE.
A successful Anti-Diabetic. Gives most satisfactory clinical results formula given. Administered in Cachets.

DIGITALINE Cristallisée
(Houdé). Standardised. The true active principle of Digitalis purpurea.

Elixir Bromo-Valerianate.
"Gabail," Valerianate with Strontium Bromide and Syrup of Orange.

ENDOCRISINES.
Organotherapy Extracts of Internal Secretory Glands prepared *in vacuo* at freezing-point

Tested as per L.G.B. Regulations.

GALYL.
Salvarsan and Neo-Salvarsan substitute (Intravenous or Intramuscular). Effective and safe. Produces no undesirable effects.

HECTARGYRE.
A combination of Hectine with Mercury.
Intramuscular Injection; also in Pills and Drops.

HECTINE.
Anti-Syphilitic. Low Arsenic percentage. Good results in Intractable Syphilis.
Intramuscular Injection; also in Pills and Drops.

THE
Anglo-French Drug Co., Ltd.

beg to state that they have opened a branch in

BELGIUM

under the title of Laboratoires Pharmacologiques Anglo-Français

36 Rue du Couloir,
BRUSSELS

The Manager in
BRUSSELS
is thoroughly conversant with Continental business, and open to push British Medical and Pharmaceutical preparations in

BELGIUM

Settlements in London.

PHARMACEUTICAL PREPARATIONS.

Quinine Salts are now Restricted

KINECTINE.
A Quinine Salt of Hectine. Prophylactive and Curative for Hay Fever, Rhinitis, Influenza. In Tablets.

KRAMYZARINE.
Treatment of Varicose Veins, Phlebitis, Varicose Ulcers, &c.

LATAPIE.
Reaction.
Simplified Wassermann Test, from the Pasteur Institute.

MORUBILINE.
Extract of the fresh liver of the cod. Supersedes Cod Liver Oil.

NEOCAINE-SURRENINE.
A perfect Cocaine substitute of low toxicity.
Reliable and safe.
Spinal and Local Anæsthesia.
Ointments, Gargles, Snuffs, &c.

OPOLAXYL
For Constipation. A combination of pancreatic, biliary, and intestinal secretions. A normal regulator of the intestinal functions. Tablets.

QUINEINE.
A liquid extract from Cinchona Succirubra. Contains 5% of Quinine Alkaloid.

RHEANTINE.
(Lumière)
For the treatment of Gonorrhœa in its various stages by the internal administrations of specially prepared Gonococci. In Spherules. Rapid, effectual, harmless.

STANNOXYL SOLUTION
For Staphylococcal affections. In 2 c.c. ampoules for Intramuscular Injection.

STANNOXYL TABLETS.
Oxide of Tin and Tin-metal free from lead. Treatment of Acne, Boils, etc.

SUKROSERUM.
Solution of Saccharose.
Intramuscular Injection for Tuberculosis.

SUPSALVS.
Stable Suppositories of "606." French Manufacture).
Simple, effective, harmless.
Give excellent clinical results.

TRICALCINE.
Contains the pure phosphates of lime and magnesia.

URASEPTINE.
Composed of Urotropine and Helmitol.
A powerful Urinary Antiseptic. dissolves and eliminates Uric Acid

VALERIANATE.
Valerian, without smell or taste.

Musterole brings quick relief for Bruises, Sprains, etc.

It is remarkable how quickly Miller's Musterole penetrates and gently draws out pain and soreness when used for bruises, sprains, stiff neck, rheumatism and other ills. In effect, Musterole is a mustard plaster—without the plaster, without the blister, without the bother.

Millions of users of Musterole, having been introduced to this remedy by doctors or nurses in the first place, now place unlimited faith in its efficiency.

Stock Miller's Musterole to-day and benefit from the steady, compelling advertising now appearing in newspapers in your own town, and magazines of wide circulation throughout the United Kingdom. Musterole is put up in a handy, white jar. Every sale means another satisfied customer for you. Prices and full trade information on request.

Thos. Christy & Co., 4-12 Old Swan Lane, London, E.C.4.



P.A.T.A. NOTICE.

113 Temple Chambers, Temple Avenue, E.C. 4.

October 2, 1920.

The following revised prices are now in force:

Advertised Price.		Minimum Retail Price.	Minimum Wholesale Price.
			doz.
1/3	Allcock's Porous Plasters ...	1/3	10/-
		complete gross	114/-
1/-	Ditto Unstamped	1/-	7/-
		complete gross	78/-
	Chesebrough Mfg. Co's. Preparations:—		
2/-	Vaseline, Borated (large) ...	2/-	18/-
2/-	,, Camphorated ,, ...	2/-	18/-
2/-	,, Capsicum ,, ...	2/-	18/-
2/-	,, Carbolated ,, ...	2/-	18/-
2/-	,, Mentholated ,, ...	2/-	18/-
2/-	,, Oxide of Zinc ,, ...	2/-	18/-
1/3	Kay's Linseed Compound ...	1/3	11/3
2/-	,, ,, ,, ...	2/-	18/-
4/6	,, ,, ,, ...	4/6	40/6
7/6	,, ,, ,, ...	7/6	67/6
18/-	,, ,, ,, ...	18/-	162/-
1/3	,, Tic Pills	1/3	11/3
2/-	,, ,, ...	2/-	18/-
4/6	,, ,, ...	4/6	40/6
1/3	,, Mountain Flax Pills ...	1/3	11/3
2/-	(Linum Catharticum)	2/-	18/-
4/6	,, ,, ,, ...	4/6	40/6
1/3	,, Throat Lozenges ...	1/3	11/3
2/-	,, ,, ,, ...	2/-	18/-
	Unstamped prices:—		
1/3	Sizes	1/3	11/-
2/-	,, ...	2/-	16/-
4/6	,, ...	4/3	37/6
	Parke, Davis & Co's. Tablets:—		
100's	Cascara Sagrada Extract 1-gr. (C.C.T. 53)	1/3	11/3
25's	,, ,, 2-gr. (C.T. 261)	10½d.	6/9
100's	,, ,, 2-gr. ,,	2/-	18/3
25's	,, ,, 3-gr. (C.T. 262)	1/2	9/-
100's	,, ,, 3-gr. ,,	2/6	19/6
25's	,, ,, 5-gr. (C.C.T. 55)	1/4	10/6
25's	Cough (Army Formula No. 4) (C.T. 565)	1/4	10/3
50's	Mixed Treatment (C.C.T. 100)	2/3	17/8
50's	Nucleo-Proteid Compound (C.C.T. 479)	4/-	32/3
25's	Potassium Iodide 5-gr. (C.T. 119)	1/1	10/11
20's	Rennin 1-gr. (C.T. 279)	1/-	7/11
40's	,, ,, ,,	1/3	13/-
36's	Sodium & Calcium Glycerophosphates with Lecithin (C.C.T. 414)	2/3	18/5
25's	Sodium Salicylate 5-gr. (C.C.T. 139)	1/-	7/11
25's	Sulphonal 5-gr. (C.T. 267)	3/-	24/5
25's	Thyroids 5-gr. (C.T.)	1 4	10/3
25's	Triple Glycerophosphates with Nuclein (C.C.T. 408)	1/9	14/3

NEW PRICES
OF

NEW-SKIN

Increased cost of manufacture compels a rise in the prices of "New-Skin" as follows:

	Retail Prices		Trade Prices
Pocket	Size 10½d.	Corresponding Increase in Trade Prices	8/3
Medium	,, 2/-		19/2
Physician's	,, 3/-		28/9½

£3 and upwards Carriage Paid.

MODERATE STOCKS ARE NOW IN HAND.

Order through your Wholesaler, or direct—

J. E. GARRATT,
96 SOUTHWARK STREET, LONDON, S.E.1.

GETS-IT
(The World-Famous Corn Remover)

"Gets-It" is a liquid which dries at once when applied to corns or calluses with the glass applicator that accompanies each bottle. Stops pain at once and soon loosens the corn or callus so that it can be lifted right off.

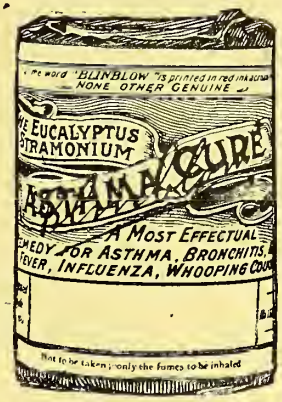
Used by Many Millions throughout the balance of the world, and certain of enthusiastic reception here.

Now Distributed in Great Britain through
THOMAS CHRISTY & CO.
4, 10 & 12 Old Swan Lane, Upper Thames St., London, E.C.
Manufactured by E. LAWRENCE & CO., Chicago, U.S.A.

Cephos

For NEURALGIA, HEADACHE, RHEUMATISM and INFLUENZA.

Write for wholesale terms to
CEPHOS LTD., Blackburn, Lancs.

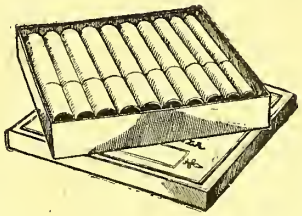


A Side Line of Repute

is always worth handling. It brings NO COMPLAINTS. Now is the time to show an ASTHMA POWDER.

"Blinblow"

POWDER & CIGARETTES



will meet your requirements.

Protected by the P.A.T.A. - 1/6 and 4/-

Name and Address Free on 3 dozen lots. Carriage Paid.

Terms :	-	12/- doz. net
3 dozen	-	11/6 doz. net
12 dozen	-	11/- doz. net

ORDER THROUGH ANY WHOLESALE HOUSE.

COMPOUND SULPHUR TABLETS

Containing Sulphur B.P., Cream of Tartar, Refined Sugar, Orange Flavoured, Guaranteed Pure.

Packed in 7-lb. Counter Boxes **2/2** per lb.

BISMUTHATED MAGNESIA TABLETS

Antacid and Refrigerant

Packed in 7-lb. Counter Boxes **3/-** per lb.

"DETERGOL"

An Ideal Antiseptic Deodorant.

No. 1 - 7/6 per gallon. **DISINFECTANT**

Contains 20% more Cresol than any other similar preparation. Surgical Instruments can be safely sterilised and disinfected in a few seconds without danger of corroding by using "**Detergol.**" Used by the Medical Profession for fourteen years.

"DETERGOL" No. 2 - - 4/6 per gallon.

For ordinary disinfecting purposes, miscible in water.

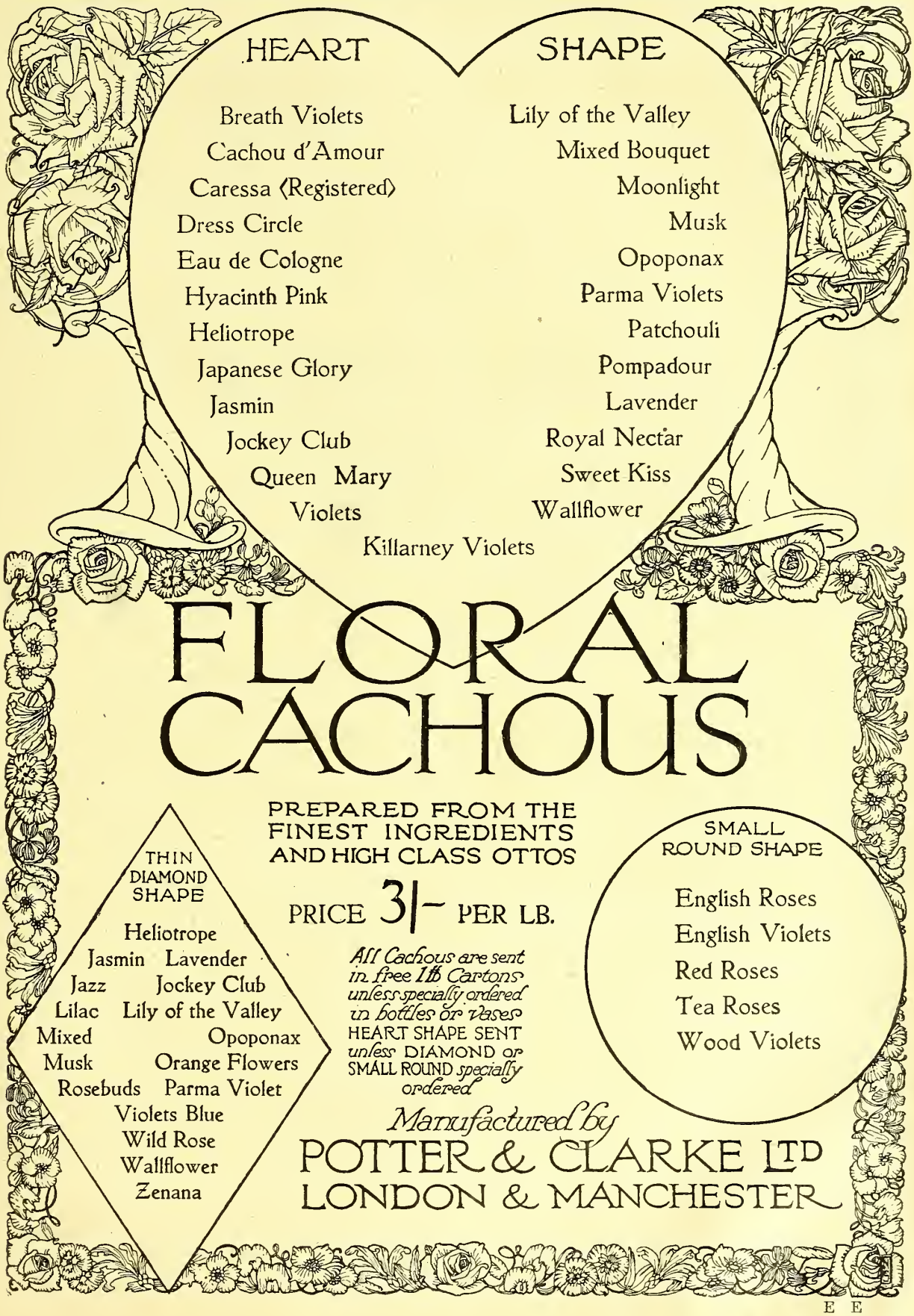
Carriage Paid on orders of £5 and upwards in the U.K.

TABLETS, PILLS, etc., and CHEMICAL AND MEDICINAL PREPARATIONS of all descriptions

Manufactured by

HOUGH, HOSEASON & CO., LTD.

Wholesale Manufacturing Chemists - MANCHESTER.


HEART SHAPE
Breath Violets
Cachou d'Amour
Caressa (Registered)
Dress Circle
Eau de Cologne
Hyacinth Pink
Heliotrope
Japanese Glory
Jasmin
Jockey Club
Queen Mary
Violets
Killarney Violets
Lily of the Valley
Mixed Bouquet
Moonlight
Musk
Opoponax
Parma Violets
Patchouli
Pompadour
Lavender
Royal Nectar
Sweet Kiss
Wallflower
FLORAL CACHOUS
PREPARED FROM THE FINEST INGREDIENTS AND HIGH CLASS OTTOS
PRICE 3/- PER LB.
All Cachous are sent in free 1lb Cartons unless specially ordered in bottles or vases
HEART SHAPE SENT unless DIAMOND or SMALL ROUND specially ordered
THIN DIAMOND SHAPE
Heliotrope
Jasmin Lavender
Jazz Jockey Club
Lilac Lily of the Valley
Mixed Opoponax
Musk Orange Flowers
Rosebuds Parma Violet
Violets Blue
Wild Rose
Wallflower
Zenana
SMALL ROUND SHAPE
English Roses
English Violets
Red Roses
Tea Roses
Wood Violets
Manufactured by
POTTER & CLARKE LTD
LONDON & MANCHESTER

Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.
LIVERPOOL - MANCHESTER - LEEDS.

WOOL GREASE
ALL GRADES.

K. MALMBERG,
110 Cannon Street,
LONDON, E.C.4.
AND AT NEW YORK.

Telegraphic Address: "Obtempere, Cannon, London."
Telephone No.: City 6821.

Salvo Petrolia
the perfection of Petroleum Jelly

in qualities, white, lemon, yellow and golden, for pharmaceutical purposes.

MANUFACTURED SOLELY BY

The Dee Oil Company, Ltd.
Delta Works . Bootle . Liverpool.

Packed in barrels, kegs and smaller packages according to requirements.

Inquiries are solicited for this article of **British Manufacture**, and buyers may rely that for quality and price, it will meet any competition.

Other Grades
Petroleum Jellies, White Bases, &c.
Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 186 Bootle. Wires "Cestrian Liverpool."

Petroleum Jelly

K. MALMBERG

110 Cannon St., London, E.C.4.

AND AT NEW YORK.

Telegrams: "Obtempero, Cannon, London." Telephone: City 6321.

OILS AND GREASES

PARAFFIN WAX

WHITE OILS

PARAFFIN LIQUID

STERNS LTD.

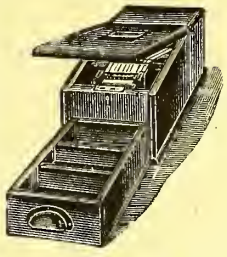
AD 80. Royal London House, FINSBURY SQUARE, E.C. 2.

TECHNICAL AND MEDICINAL WHITE OILS.
PETROLEUM JELLIES.
PARAFFIN WAXES.
NEUTRAL OILS, Debloomed and Undebloomed.
PALE & RED LUBRICATING OILS
CYLINDER OILS.

W. J. SMITH, *SOLE EUROPEAN REPRESENTATIVE.*
THE JAMES B. BERRY'S SONS CO. Inc.
110 Cannon Street, London, E.C.4.

THE IMPROVED
DUDLEY CASH TILL.

This Till, though so inexpensive in price, does the work just as efficiently as one costing double the price. It is made from well-seasoned wood, stained and polished to imitate richly coloured mahogany. Size: 18×9×7¼". Lid fitted with lock and key. Recording paper ⅞" wide. Automatically rings warning bell every time cash drawer is opened. Price, packed in wood case, **77/6** each.

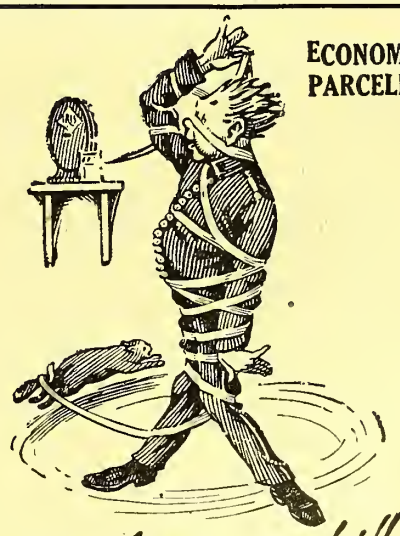


Sent on 14 days' trial on receipt of cash or two wholesale trade references.

Dudley Till Coils, **5/-** doz.

DUDLEY & CO., 451 Holloway Road, N. 7.
City Showrooms—25 Wood Street, Cheapside, E.C.2.

ECONOMICAL PARCELLING



By Gum it sticks!!

"IRIS" GUMMED TAPE

Write for Samples & Prices.

R. A. STEPHENSON, LTD.,
130 Queen Victoria Street, London, E.C.4

ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE PRODUCED
IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.

Carnwath Road, Fulham, London, S.W.
WHO INVITE INQUIRIES.

METHYLATED SPIRIT

OILS AND CHEMICALS

Buy from one of the oldest houses in the trade.
Write for Prices. *Established 1794.*

SAMUEL THORNLEY, Ltd., Birmingham.

ADEPS LANÆ

B.P.

"ULTRAVI" Brand.
The Latest & Best.

— Inquiries Invited. —

THE
C.V.O. Chemical Works,
LIMITED,
Petersham Road,
RICHMOND (SURREY).

PURE
OLIVE OIL

OLIVE OIL
(GENUINE CASTILE)
SOAP

LEON FRENKEL,
10 Lime Street, LONDON, E.C.3.

EUCALYPTUS OIL

B.P. 70/80 %

OLIVE OILS

All Descriptions.

LIQUORICE

Block and Sticks.

CASTILE SOAP

White and Mottled.

COD LIVER OIL

Medicinal and Cattle.

WE ARE NOW MAKING SPECIAL OFFERS OF ABOVE.
: : WRITE TO US FOR SAMPLES AND PRICES : :

STRICTLY WHOLESALE.

F. CHIESMAN & CO.,

59 ST. MARY AXE, LONDON, E.C. 3.

Telephones: AVENUE { 63 (2 lines) 6994

Telegraphic Address: "PALUSTRIS, LED, LONDON."

AND AT

LIVERPOOL, GLASGOW, BRISTOL, ETC.

DIAMALT

Plain and with 15% or 33% (by weight) COD LIVER OIL

DIAPARAFFIN

Malt Extract and Paraffin in Powder form.

DRY DIAMALT

Diastasic Malt Extract in Powder form.

The above Preparations are on the P.A.T.A. and allow a 25% margin.

EXTRACT of MALT

Plain and in combination with

NORWEGIAN COD LIVER OIL

in

BULK - JARS - TINS

Name and Address on Labels for quantities of 6-doz. Jars or Tins.
(Selection of Labels sent if required.)

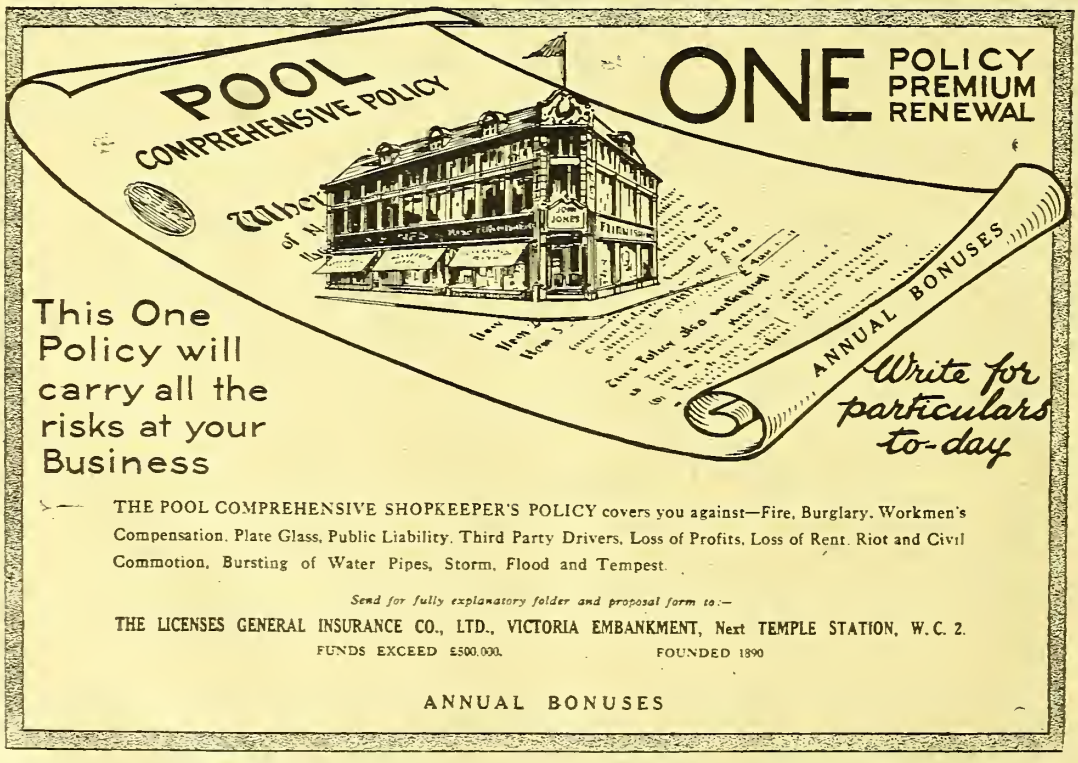
SAMPLES AND PRICES ON APPLICATION.

THE BRITISH DIAMALT COMPANY

(Proprietors: H. A. & D. TAYLOR, LTD.)

Works and Head Office:
SAWBRIDGEWORTH, HERTS.

Northern Agency:
J. B. CROSSLEY, Arcade Buildings,
85 Lord Street, LIVERPOOL.



THE POOL COMPREHENSIVE SHOPKEEPER'S POLICY covers you against—Fire, Burglary, Workmen's Compensation, Plate Glass, Public Liability, Third Party Drivers, Loss of Profits, Loss of Rent, Riot and Civil Commotion, Bursting of Water Pipes, Storm, Flood and Tempest.

Send for fully explanatory folder and proposal form to:—

THE LICENSES GENERAL INSURANCE CO., LTD., VICTORIA EMBANKMENT, Next TEMPLE STATION, W.C. 2.

FUNDS EXCEED £500,000. FOUNDED 1890

ANNUAL BONUSES

SCIENTIA DILIGENTIA

BURGOYNE'S



for

Cod Liver Oil Emulsion

Extract of Malt and Oil

ALSO

ALL Winter Preparations.



ZOTAL THERMAL WOOL

Cough Mixtures. Lung Tonic

Chlorodyne. Chillie Paste

Influenza Mixture. Pine Tablets

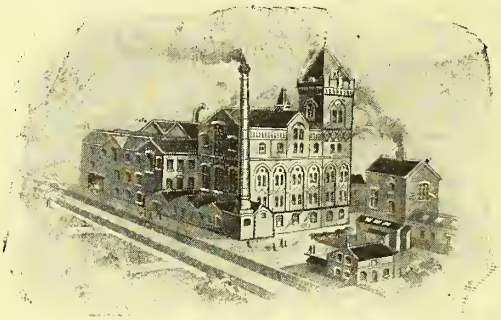
ETC.

Let us quote for your requirements.

Burgoyne, Burbidges & Co., Ltd.

EAST HAM —————— LONDON, E.

Telegrams: "ZOTALENE, PHONE, LONDON."
Telephone: EAST HAM 680 (Four Lines)

"John  Bull"
(REGD.)

MALT EXTRACT
and
COD LIVER OIL

Does not separate.

Supplied in Bulk, Jars, Cardboard Containers, &c., for Wholesale and Export only.

PAINE & CO., LTD., ST. NEOTS, HUNTS.

VITMAR

The Medical Profession are recommending VITMAR for delicate children and Invalids.

If you do not yet stock it your wholesaler will supply you.

Manufacturers:

CALLARD & Co.

Food Specialists,

74 REGENT ST., LONDON, W.1

ALL CHEMISTS SHOULD STOCK ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 years' Reputation.

"Abdine" is the most popular Health Drink, superior to all Mineral Waters. Sold in Packets, **2d.** each.

Wholesale Prices on application. Sample Box 1/6.

D. M'GLASHAN, M.P.S., [Abdine Works, Westfield Road, EDINBURGH.

HEALTH SALT *SUPERIOR QUALITY.*

4-oz. Decorated Tins.

1 Gross ... **78/-** 5 Gross ... **77/-**
2 „ ... **77/6** 10 „ ... **76/6**
Carriage paid.

W. FOX & SONS, Wholesale Botanic Druggists
CASTLE STREET, SHEFFIELD.

DIABETIC FOODS

Can you Supply Energen Gluten Foods

when the doctor recommends his patients to use them in their diet?

The ENERGEN FOODS are now being recommended by the Medical profession as they are the only ones that fulfil their requirements.



Packed in boxes, specially for Chemist's trade.

The most palatable and nutritious Gluten Foods on the market keeps perfectly

Manufactured in a model factory under periodical Medical supervision. *Inquiries Invited.*

THERAPEUTIC FOODS CO.
19c Roundwood Road, Willesden, N.W.10.

Jensen's

ICE-REFINED

NORWEGIAN

COD LIVER OIL

IN TIN-LINED BARRELS.
GALLON DRUMS.
WINCHESTER QUARTS.

And in

5-oz., 10-oz. and 20-oz. Bottles

Always in Stock in London.

Sole Proprietors—

HERTZ & CO., 9 Mincing Lane, E.C.3



HALIFLOR

NATURAL FLORAL ESSENCES

For Making Quadruple

PERFUMES

And for Perfuming

TOILET PREPARATIONS

ALSO

ONE-DROP ESSENCES

Price List and Samples on Application to

HERTZ & CO., 9 Mincing Lane, London, E.C. 3

Works and Laboratory: 20 Bevis Marks.

RUSSIAN

LIQUIPAR BRAND

LIQUID PARAFFIN B.P.

860/70, 870/80, 880/90,

In Original Barrels and Steel Drums of 40/50 Gallons, also

Odourless and Colourless

Brilliantine Oils

In 10-gallon Drums and Original Barrels of 40 gallons.

FOR IMMEDIATE DELIVERY.

For Samples and Prices apply to—

HERTZ & CO.,
9 Mincing Lane, London, E.C. 3.

WORKS & LABORATORY: 20 BEVIS MARKS.

FLOROZON

DISINFECTING SPRAYERS

AND

ESSENCES

For Hospitals, Sick Rooms, Nursing Homes, etc.

AND

Florozon Inhaler

(Patent No. 110718).

CHLORIDE of AMMONIUM.

For Nasal Catarrh, Bronchitis, Chest Complaints and Asthma.

Sole Proprietors:

HERTZ & CO.,
9 Mincing Lane, London, E.C. 3.

Works & Laboratory: 20 Bevis Marks.

Telephone: 10607 Central. Telegrams: "Freshness, London."

Have you a WINE LICENCE?

If not, you should take steps to procure one, and we will pay the cost.

If you already have a licence we undertake to pay the annual charge.

Dr. HALE'S
VIN-SANGUIS
WINE FOR THE BLOOD

The only conditions are—

1. *That you agree to give full display to Dr. Hale's Vin-Sanguis in your premises all the year round.*
2. *That you give us an agreed initial order.*
3. *That you keep Dr. Hale's Vin-Sanguis always in stock.*

Advertising Matter and Doctors' Samples free.

Trans-Continental Agencies, Limited

Proprietors of Dr. Hale's Vin-Sanguis.

14 Southampton Street, Strand, London, W.C. 2.



THE CHEMISTS' APERIENT MINERAL WATER

Aquaperia (Harrogate)

P.A.T.A.
2/6 per doz. allowed for Empty Bottles returned Carriage Paid, to our Factories

Standardised & Bottled by CAMWAL, Ltd., at their Spring at Harrogate.
Supplants Apenta, Hunyadi-Janos and German and Austrian Waters of similar Character

Of all Wholesale Houses, and "CAMWAL" LTD.

HARROGATE, MANCHESTER, BIRMINGHAM, BRISTOL, MITCHAM, LONDON, & DEPOTS.

Special Export F.O.B. quotations, including packages.

WINCARNIS

Sells readily ALL the time.

COLEMAN & CO., Wincarnis Works, NORWICH.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" *without* a licence.

MASON'S EXTRACT OF HERBS

can be made up successfully with Treacle.

Please apply for supply of descriptive bills for distribution or counter use, to

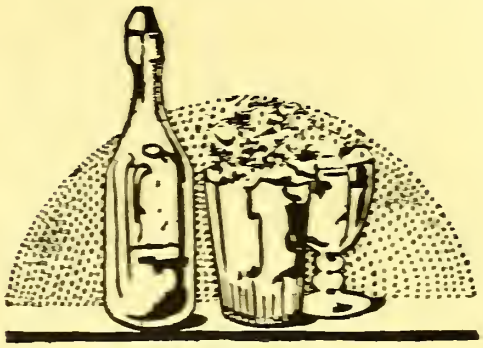
Newball & Mason
NOTTINGHAM.

"AQUAPERIA"

Owing to the great demand for "AQUAPERIA," the Harrogate Aperient Water, we regret that we cannot guarantee that the Water will always be filled in the usual shaped bottles.

All Chemists holding empty "AQUAPERIA" bottles would be allowed at the rate of 3/- per doz. if returned carriage paid to any of our factories.

CAMWAL LIMITED,
LONDON, MANCHESTER, BIRMINGHAM, BRISTOL, HARROGATE, MITCHAM.



The Finest Quality Aerated Waters are made only with the Finest Quality
ESSENCES

BOAKE ROBERTS'

Soluble Essences are of the finest quality and being extremely concentrated are most economical

Lemon	Ginger Ale
Orange	Stone Ginger (Cloudy)
Ginger	Clear Ginger Beer
Raspberry	Kola Champagne
Strawberry	Lime Juice and Soda
Pineapple	Lemon Squash Vanilla

A. Boake, Roberts & Co. Ltd.
Stratford, London, E.15.

BISHOP'S
Natural Fruit Saline.

THE BEST SELLER.

This preparation, our latest Saline, made by our special process, without **Sugar** or **Saccharine,** is a unique Saline. It is strongly effervescent and delightfully palatable, making a bright, refreshing draught which acts as a mild but very thorough aperient, anti-acid and liver stimulant.

Bishop's Natural Fruit Saline is taken regularly with pleasure and safety by men, women and children all the year round. This steady demand makes it a profitable winter line. It keeps perfectly in all climates.

The Wholesale price is **20/-** per doz. On £5 lots, discount **10%**, and carriage **paid.**

The P.A.T.A. Retail Price is **2/3** per bottle.

This ensures a profit of **9d.** per bottle to the chemist.

Prepared only by

ALFRED BISHOP, LIMITED, 48 Spelman Street, LONDON, E. 1.

CARVER'S
TONIC SALTS

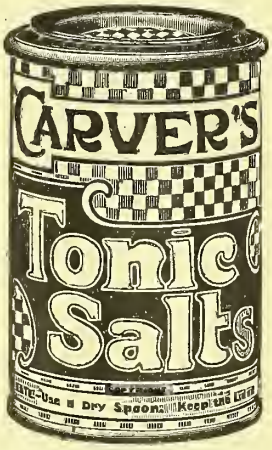
A COMBINED NERVE TONIC AND BLOOD PURIFIER.

A Marvellous Corrective of all Liver Troubles.

Attractively packed.

Shows 50% Profit to you.

Price in gross lots, per **100/-** gross.
Carriage Paid.
Less Special Stocking Bonus of 5%



4 oz. Size Retailed at 1/-

A scientifically prepared Effervescing Saline, possessing medicinal properties superior to the ordinary Health Salts

A FREE TIN

will be sent for your personal trial on receipt of application on letter heading.

Sole Proprietors—

JOHN CRAMPTON & CO. LTD. DEANSGATE, MANCHESTER.

LOSALL'S SALT

SELLS FREELY & READILY

PAYS 50% ON OUTLAY

An Infallible Remedy for **GOUT, RHEUMATISM, ECZEMA, and SKIN AFFECTIONS.**



P.A.T.A.	Doz. Net.
4-oz. tins 1/-	8/-
8-oz. tins 1/10	15/-
Bottles 2/6	20/-

The only line of its kind on the market.

SOLD EVERYWHERE.

Manufactured by

LOFTHOUSE & SALTMER, Ltd. HULL



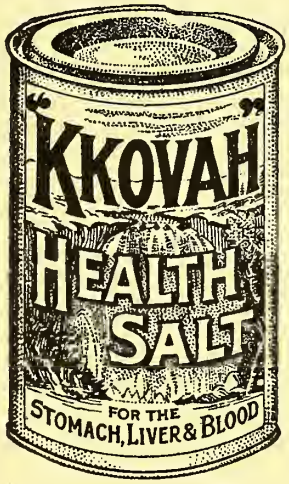
by reason of its genuine ability to carry out all its claims, has become a regular feature in the home life of thousands, whilst publicity on a large scale is constantly creating a demand from entirely new sources.

If you are not stocking Kutnow's Powder, you are missing your share of the profits which are to be obtained by handling this efficacious corrective for Constipation, Liverishness, Biliousness, etc.

Retailed in bottles with carton at 3/6.

S. KUTNOW & CO. LTD.
41 Farringdon Road, London, E.C. 1.

Ask your wholesale dealer for full particulars



Kkovah Health Salt

Makes you fit—keeps you fit

Don't allow the "other man" to get your share of the demand for Kkovah Health Salt.

We do the advertising and increase the already big demand . . . . . all you have to do is to meet it.

Get your stock now and display a few tins on your counter.

Prices and Terms for the asking.

SUTCLIFFE & BINGHAM LTD.,
Cornbrook - - MANCHESTER.

Real Good Lines

Pumisope "The Hand Cleaner."

Dry Cloth-cleaning Balls
(All Colours)

Precipitated Chalk
(Powder)

Prepared Chalk
(Powder and Cones)

Fancy Boot-top Cleaning Balls
(All Colours)

Magnesia, Rouge, &c.

H. H. HANCOCK Regd. No. 266037 LONDON

HANCOCK'S, LTD.
"The Factory," OLD BATTERSEA, S.W.11.
WHOLESALE: Write for QUOTATIONS.

TOOTH BRUSHES 4/6 dozen —4/3 doz. 1-Gross Lots 4/- doz. 5-Gross Lots

NAIL SCISSORS BENT 2/3 pair —24/- dozen 1-dozen Lots

DRESSING SCISSORS 3/- pair —33/- dozen 1-dozen Lots

THOS. SWALES, *Druggists' Sundryman,*
24 Butts Court, & 89 Albion Street, LEEDS.

Best British Make.
The
Kenley Seamless Rubber Works

Teats, Soothers, Finger-Cots, and every description of Surgical Rubber Goods.

Inquiries invited. Samples submitted.
Wholesale and Export.

W. G. WOOLACOTT, 76 Lower Road, KENLEY : Surrey.

T. SHERBORNE & CO.,
Surgical Appliance Manufacturers.
Manufacturers of Surgical Abdominal Belts, Ladies' and Gents' of every description.
WHOLESALE ONLY.
HONOR OAK PARK, S.E. 23. Phone: Sydenham 517.

For GUARANTEED
ATOMIZERS and SPRAYS
THE DEVILBISS CO., LIMITED
71 NEWMAN STREET, LONDON, W.1.

ELASTIC GUM SURGICAL INSTRUMENTS.



Catheters and Bougies, in Black or Brown Gum, and Finest Silk Web. Specula, Rectal and Œsophageal Instruments.
Horse Catheters and Cattle Probangs. Wholesale and Export only. *Price List from the Manufacturers.*

MASON BROS. & CHAPMAN, 107 Whitecross St., LONDON, E.C. 1.

"INTRINSIC" Brand (Highest Grade) SURGICAL KNIVES and SCISSORS.



Inquiries invited by the ACTUAL MAKERS.
Amputating, Dissecting, and Veterinary Knives, Symes, Scalpels, Bistouries, Lancets, etc.

J. MILNER & Co.
Orient Works: 36 & 38 Matilda St., SHEFFIELD (Estd. 1842).

A SATISFIED CUSTOMER IS THE CHEMIST'S BEST ADVERTISEMENT

The Marvel Whirling Spray Syringe



Gold Medal Awarded, Paris, 1902, by the Société d'Hygiene of France

as the latest and best improvement in Vaginal Syringes. Particular attention is called to the fact that by reason of its peculiar construction the Marvel Syringe dilates and flushes the vagina with a volume of whirling spray, which smooths out the folds and permits the injection to come into contact with and cleansing the entire surface.

Fully Protected by Patents.





You can safely recommend it.

Has no rival on the market, is well advertised, pays a good profit, quality guaranteed. The MARVEL is returnable for exchange if found defective and reported promptly.

Trade price, 125/- per doz.

Retail price, 15/- each.

FASSETT & JOHNSON, Ltd.

86 Clerkenwell Rd., London, E.C. 1.

Telegrams: "Aybelim, Finsquare, London." ABC 5th Edition.

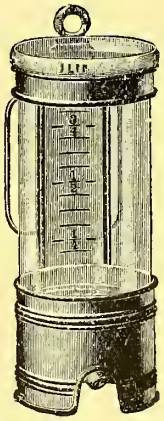
TRADE MARK.

PERFECTUM SERIES

Phones: Clerkenwell 1347, 1348, 1349. Private Exchange.

GLASS-LINED DOUCHES.

WELL MADE FRAMES.



COMPLETE WITH SET OF VULCANITE FITTINGS & TUBING EACH IN BOX.

Immediate Delivery.

ARTHUR BERTON, LTD.,

15 & 17 Worship Street, LONDON

46a Market Street, MANCHESTER

11 Miller Street, GLASGOW

RENÉ HEYMANS

9/10 DOMINGO STREET

Tel.: CITY 3765. 36 OLD ST., E.C.1

Vulcanite DOUCHE FITTINGS

" Spare Parts

" Enema Pipes

" Whirling Spray Canules

BONE SHIELDS

BONE MOUNTS

BONE RINGS

French CAPPING SKINS (opaque and transparent)

TOOTH COMBS

(Best Galalit)

POCKET COMBS

Cheap lines in NAIL FILES (bone and steel) carded.

SAFETY RAZORS and spare blades.

French SHAVING BRUSHES

NAIL CLIPPERS.

TOOTH BRUSHES

at low prices.

And all kinds of Surgical and Hygienic Rubber Goods.

Sutcliffe Bottle Dryer

ILLUSTRATION of a Combination Bottle Dryer specially designed for Manufacturing Chemists. Six to ten gross can be dried in the cupboard per hour, and at the same time large bottles can be dried on the tubes at the rate of two thousand a day of ten hours.

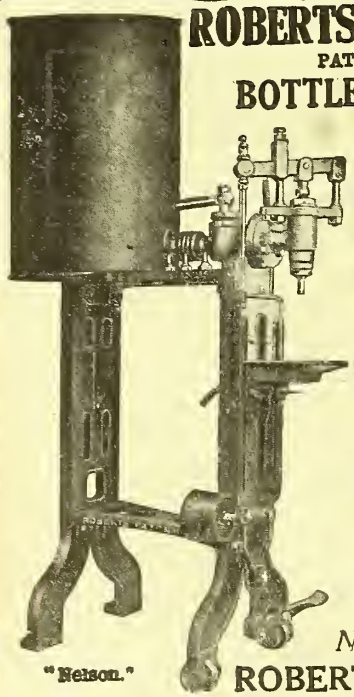
We have supplied scores of these machines, and can give references in every district in Great Britain. Among the best-known users are: Messrs. Allen & Hanburys Ltd.; Bleasdale Ltd.; Boots Ltd.; W. J. Bush & Co., Ltd.; W. B. Cartwright Ltd.; British Drug Houses Ltd.; Duncan, Flockhart & Co.; R. Gibson & Sons, Ltd.; Hirst, Brook & Hirst Ltd.; Johnson & Sons; Lofthouse & Saltmer Ltd.; Meggeson & Co., Ltd.; Yardley & Co., Ltd.; etc.

We also make special Plant for Drying Confectionery & Chemicals.

Illustrated Catalogue Sent on Request.

Sutcliffe Ventilating & Drying Co. Ld.
Cathedral Gates, Manchester.
Telephone No.: 2020 City. Telegraphic Address: "Ventilabro."





ROBERTS' ORIGINAL
PATENT
BOTTLE-FILLING MACHINES

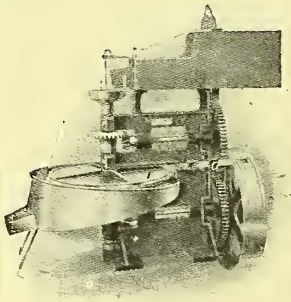
Don't waste money on imitations, buy **Roberts' Machines** which actually **Created the Records** for **CLEANLINESS SIMPLICITY, and Rapidity in Bottle Filling.**

NOTE the address

"Nelson." ROBERTS' PATENT
FILLING MACHINE CO.,
33 ROUNDCROFT ST., BOLTON.

OUR LATEST PATENT "ALPHA" PRICE £14, WILL FILL 10 GROSS BOTTLES PER HOUR.

Write for Particulars. *All rights reserved.*

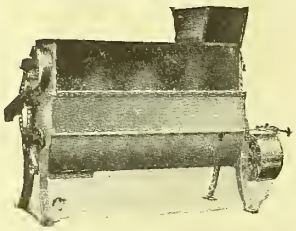


THE
GRIMSLEY
Pill Rounding Machine.

Guaranteed Output.
Early Delivery.

GRIMSLEY & CO., LEICESTER, LTD.
St. George's Engineering Works, Queen Street - LEICESTER. (2)

"LEYSELL" Sifting and Mixing Machines.



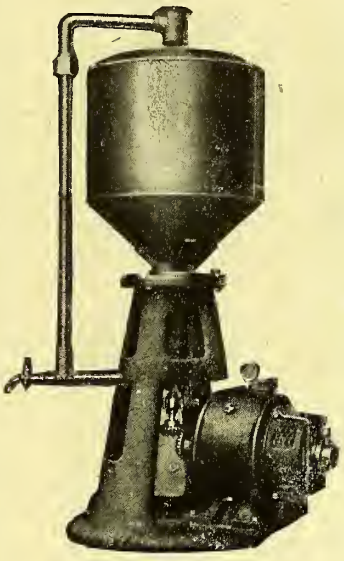
Made in various sizes for power or hand.

For mixing a large variety of dry powder.

Quick delivery.
Inquiries solicited.

LEYSELL ENGINEERING CO.
(J. W. HEFFORD),
66 Aldermanbury, London, E.C. 2.

MOTOR DRIVEN
Suitable for any Supply Voltage,
D.C. or A.C.



Telegraphic Address:
"COMMUTATOR LIVERPOOL."

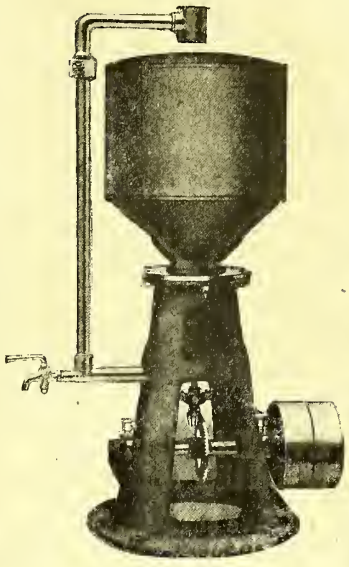
SINGLE PROCESS
EMULSIFIERS

MADE IN **10-GALLON** SIZE ONLY.
THE
"Boothroyd 2 in 1" Emulsifier
will do your Mixing and Emulsifying
QUICKLY & EFFICIENTLY
in one process.
Either machine absolutely self-contained, and only requires connecting or belting up.

PRICES:
MOTOR DRIVEN £87 - 0 - 0
CODE—MOMUL.
BELT DRIVEN £60 - 0 - 0
CODE—BLMUL.

TERMS:
HOME TRADE—Net Cash.
EXPORT TRADE—Net Cash against Documents (Pounds Sterling).
Packing for shipment and delivery f.o.b. Liverpool or London, **£7 - 0 - 0** extra.
When ordering Motor-driven Machines give—(1) Supply Voltage; (2) whether Direct or Alternating; if Alternating give (3) frequency and number of Phases.

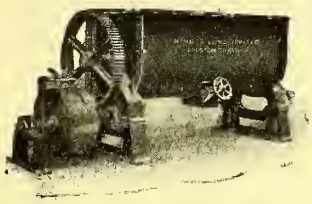
BELT DRIVEN
COMPLETE WITH LOOSE PULLEY.



Code:
BENTLEY'S.

H. T. BOOTHROYD, LTD., BOOTLE, Liverpool.

"ATLAS" PATENT
MIXERS & SIFTERS



Absolutely up-to-date in every detail, strong, and most reliable machines on the market.

BALL MILLS

HIND & LUND, LTD.,
ATLAS WORKS, PRESTON.
Telegrams: "Atlas Preston."
(3)

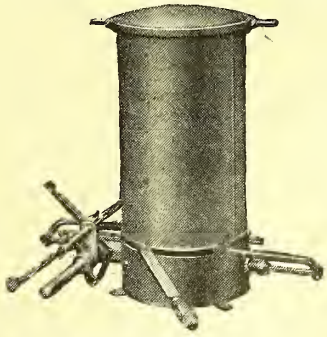
ASBESTOS FILTER FIBRE

Specially prepared for the filtration of Water, Beer, Spirits, Vinegar, Wines, Gelatine, Pharmaceutical Products and Essences.
GIVES A CLEAR AND SPARKLING FILTRATE AT A MINIMUM COST.

PURE, NEUTRAL AND INSOLUBLE.

Write for Samples and Prices to
TURNER BROTHERS ASBESTOS CO., Ltd.,
ROCHDALE, England.

INCREASE YOUR OUTPUT AND SAVE LABOUR
BY USING THE
"CENTRAC"
FILLING MACHINES
For TUBES, POTS, JARS and BOTTLES



Tube-Filling Machine for Semi-liquids.

The Best and Cheapest Machines on the Market.

Used by all Leading Firms.

Price of Tube and Jar-Filling Machine (Tin-plated),
£7 10 0
Send us your requirements.

Sole Makers—
The Banister Street Works, Ltd.
ENGINEERS,
45 High Street, HOMERTON, E.9.



SCREW CAPS

IN TIN, plain, lacquered or printed design. **SATIN FINISHED ALUMINIUM** and **NICKELLED ZINC,** plain or embossed. Any size or style.

¶ We shall be happy to submit suggestions, samples and quotations on receipt of your enquiry. We also make Automatic and Phœnix Caps, and all sizes of Cork Stoppers with metal tops, plain enamelled or printed.

ROBERTS' CAPSULE STOPPER CO. LTD

63 CANTERBURY ROAD, LONDON, S.E. 15

CAPPING SKINS

WHITE AND COLOURED SPLITS, OPAQUE AND TRANSPARENT BAUDRUCHE. SPRINKLERS.

ARTHUR TOOMBS & CO.
Perfumers' Sundriesmen,
26-27 Bush Lane, Cannon St., LONDON, E.C.4.
Telephone: Central 13374.
Telegraphic Address: "Deflection, Cannon, London."

RAILOX NIT DESTROYER

A dry powder, delicately scented. Perfectly clean in use. Very effective. Non-Poisonous. Attractively Packed. Sells itself if shown.

SHOWS A GOOD PROFIT

PRICES.—Retail: 3d. and 7½d. per packet.
Wholesale: 6 dozen 12/-; 1 gross 23/6
7½d. size 5/3 per dozen.
DISCOUNT.—Orders of £1, 2½%; £5, 5%
Carriage paid. 13 to doz. for cash with order.

Neat High-Class Advertising Matter Supplied With Each Order.

MILNER'S CHEMICAL CO., LIVERPOOL

Cut Perfume Bottles

(WHOLESALE ONLY)

FRANK A. CONDUIT,
SUTTON HOUSE,
2 OLD STREET,
LONDON, E.C.1.

ESTABLISHED 1889

SEND FOR

SPLIT SKINS

TO

R. LECONTE & CO.

Capping Materials Specialists,

7 & 8 South Street, FINSBURY,

LONDON, E.C. 2.

PHONE: CLERKENWELL 1588.

WIRES: "ETNOCEL, AVE, LONDON"

CORRUGATED PAPER

ROLLS, SHEETS, BOXES
(collapsible)

Cartons, "Cut Pieces," Strong Outers, for every description of Packing.

Keenest Prices. Quick Delivery.

Inquiries Welcomed.

The Guildhall Corrugated Paper Co.

Guildhall Bdgs., Navigation St., BIRMINGHAM.

Telegraphic Address: "Corrucarb Birmingham." *Telephone:* Central 4291.

PHOTO ALBUMS

OF

SUPERIOR QUALITY & DESIGN

PASTE-ON and SLIP-IN.

Stiff or Flexible Covers in Canvas or Leather.
Retail Prices range from 9d. to 35/- each.

When a dealer sees our Albums he orders, and when he stocks them he becomes a regular customer. We are anxious therefore, that every Chemist and Photographic Dealer should see our goods, and we are offering to send a £3 *Cash Parcel, Carriage Paid,* to any part of the United Kingdom. The parcel will contain a choice selection of our best selling lines, and an Illustrated Catalogue will be enclosed. Send for this £3 parcel and then make up a Stock order.

REGINALD E. CARTER, Ltd.

12 Lower Seymour St., Portman Sq., London, W 1.

"DALE TUBES"

THE TUBES THAT STRIKE A FRESH NOTE

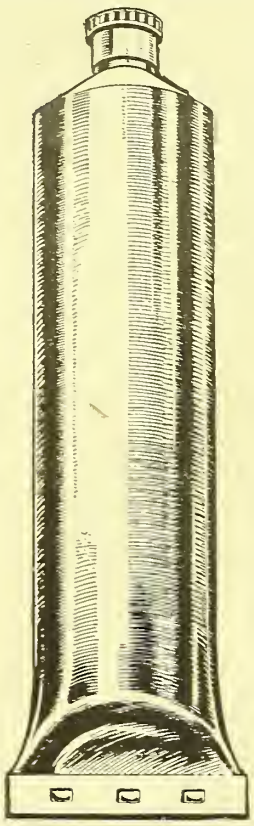


Unexcelled Workmanship
Artistic Designs
Superb Finish

WRITE FOR SAMPLE OF ABOVE STOCK DESIGN

THE JOHN DALE MFG., COY.,
New Southgate,
LONDON, N.11.

TO WHOLESALE & EXPORT ONLY



Tubes that attract

Let your collapsible tubes be more than mere containers

REMEMBER—the prospective customers see the tube first. When you are ordering your next supply get Venesta Tubes, they have that quality and finish that is going to help you sell the goods.

Made in pure tin, lead, and lead coated with tin, plain, enamelled and printed with designs to customers' own requirements.

Write for particulars and current prices—your inquiries will receive our immediate attention.

TIN FOIL

We also manufacture Tin Foil in sheets or reels, highly polished, plain, embossed or coloured, and suitable for every purpose.

Venesta Ltd
Collapsible Tubes
1. Great Tower Street, London. E.C.3.



Ralty Home Dyes

This New Idea is catching on.

Ralty Dyes are put up in glass tubes that work as easily as fountain-pen fillers. The Dye cannot leave the tube except *in solution.* Sediment and patchy colour are impossible. There are 25 Standard Colours, and local and national advertising is making these novel and efficient home dyes exceedingly popular.



Write for Samples & Prices

Art Showcards, Counter Boxes and strong advertising are making "Ralty" Dyes a proposition worth handling. Write direct to

ECROYD & COMPANY
Mossfield Rd., Farnworth, Bolton.

Write also for Samples of Ralty Washing Blue. Liberal Trade Terms for both.

BUY—

THREE STAR

BATTERIES

and have **THE BEST:**

Ask your Factor for "Three Star," or write direct to the Manufacturers

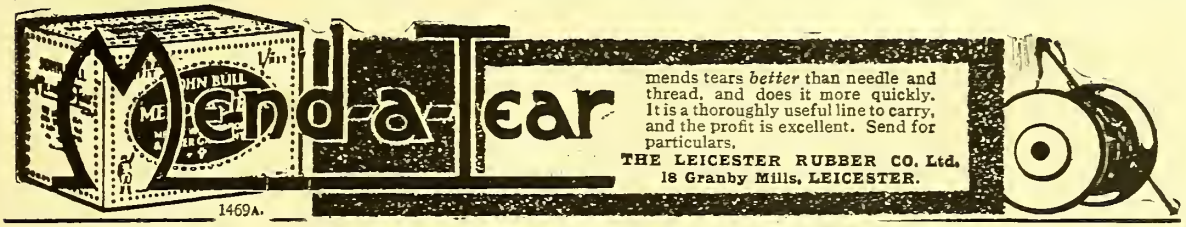


Made entirely in England with British Capital and British Labour

SUNLIGHT MANUFACTURING CO., LTD.

Telephone: Tottenham 2208.
Telegrams: "Sumabatry, Tottlane, London."

PAXTON ROAD, TOTTENHAM, N.17.



mends tears *better* than needle and thread, and does it more quickly. It is a thoroughly useful line to carry, and the profit is excellent. Send for particulars,

THE LEICESTER RUBBER CO. Ltd.
18 Granby Mills, LEICESTER.



Telegrams: "THERMORIGI BRIGHTON."

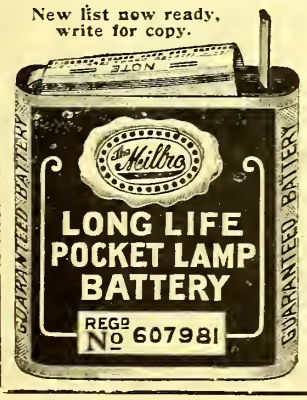
TRADE MARK: "THERMORIGI," REGISTERED.

Member of British Lamp-blown Scientific Glass-ware Manufacturers' Association, Ltd., and Glass Research Association

E. S. ARRIGHI,

CHEMICAL AND EXPERIMENTAL GLASS BLOWER AND THERMOMETER MAKER,
39 & 40 BOND STREET, BRIGHTON.

New list now ready, write for copy.



BATTERIES

Buy only those with a reputation for

1—LONG LIFE. 2—RECUPERATIVE QUALITIES. 3—GUARANTEE.

All Batteries bearing this Label can be absolutely relied on.

No. 3 guaranteed 3 months
No. 4 „ 4 „
No. 6 „ 6 „

Packed in cardboard outers containing 3 dozen Batteries.

14 different patterns in Pocket Lamp cases in stock. Write for prices and sample collection.

MILLARD BROS. LTD., 123 Houndsditch, London, E.C.

Telegrams: "Sourcrout, Ald, London." Telephone: Avenue 3737.

New list now ready, write for copy.



TO ALL INTERESTED IN LABELS

WE ARE EXHIBITING AT THE

International Advertising Exhibition

WHITE CITY. LONDON, W.

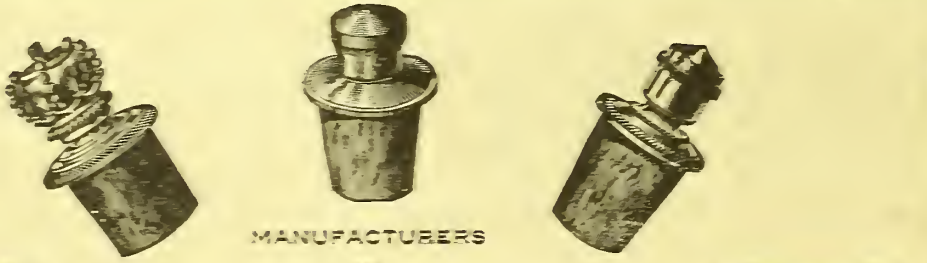
from November 29th to December 4th

Our Stand is No. 152

A VISIT FROM YOU WILL BE WELCOME

SUTTLEY & SILVERLOCK, Ltd.

BLACKFRIARS ROAD. LONDON, S.E.1



MANUFACTURERS

OF

Collapsible Metallic Tubes

For Artists' Colours, Tooth Pastes, Lanoline, &c.

SPRINKLERS

FOR

Perfume Bottles and Hair Washes.

METAL CAPS

FOR

Glass Jars and Toilet Preparations.

BROOKS, PEEL & CO., LTD.

24 CITY ROAD, FINSBURY SQUARE, LONDON, E.C. 1

We are designers and actual manufacturers of Shop Fronts and interior fittings to suit any class of trade.



Shop Fronts erected at Grantham in Oak and Granite.

Complete installations carried out in any part of the United Kingdom

27 SUMMER ROW **PARNALL & SONS** BIRMINGHAM.

SHOPFITTING SPECIALISTS

Works: BRISTOL

PROVINCIAL INCANDESCENT FITTINGS **PIFCO** COMPANY LIMITED

YOU CAN NOW SELL THESE



POCKET LAMP CASES from 4/- per doz.

POCKET LAMPS, CASE, BULB AND BATTERY COMPLETE 14/6 DOZ. Carriage forward



TORCHES 5 inch from 12/- per doz.



REFILLS. 3 months' guarantee. 7/6 per doz.

Cheapest House in the Trade.



LADIES' LAMPS Nickel and Leather from 12/6 per doz.

Catalogue post free to the Trade.

"PIFCO HOUSE," HIGH STREET, MANCHESTER.

You will Save Time, Trouble and Money by sending your enquiries in the first place to the men who know their Trade.

H. MILLS & SONS,

The Premier Chemists'

SHOPFITTERS,

Designers and Manufacturers,

163-165 Old Street, London, E.C.

We have a world-wide reputation for designing and fitting up-to-date Pharmacies.

Large Stock of Second-Hand Chemist Fittings always in Stock.



BOOKS FOR PHARMACISTS

Send us a postal card and we will send you a 32-page catalogue of practical and business books for pharmacists, and a copy of

"THE SPATULA"

an illustrated monthly magazine for druggists full of practical help and suggestions.

THE SPATULA PUBLISHING CO.

BOSTON 14, MASS., U.S.A.

YOUR FUTURE ASSURED.

BIG CHANCES IN ADVERTISING.

Have you considered advertising as a profession? Of all the callings this is the youngest; well-paid posts all over the country are waiting for the right man; the prospects everywhere are brilliant. If you are a man who wants a life full of interest, here is a career teeming with the unusual and the unexpected.

Given average ability, commonsense, and a real desire to win out, you can soon become a qualified advertising man; and once you have made good, command your own salary. The supply of good men is not yet equal to the demand.

Go into this matter, don't commit yourself in any way until you have thought it over; but for your own sake, write for the *FREE BOOKLET*—

"The Business of Advertising."

This will tell you much that is interesting and helpful. It opens a new life for you; a life full of possibilities, with big money attached. You will have the opportunity of studying the advantages and disadvantages with the actual facts at your command. You stand to lose nothing and to gain everything.

Don't miss this opportunity for the sake of a postcard.

Simply send your name and address to—

THE "ACTIVE SERVICE" SCHOOL OF PRACTICAL ADVERTISING.
(Dept. F), 46-47 Holborn Viaduct, London, W.C.1.

THE

South of England College of Pharmacy

(Concilio et labore)
186 CLAPHAM ROAD, LONDON, S.W. 9.
Principal—H. LUCAS, Ph.C., F.C.S.

THE SCHOOL FOR SUCCESS!

During the present year, **3 Majors** and **56 Minors** have passed from this College; also **8** others passed the Part I. of the Minor. These passes represent **86%** of those presented.

Entry list for October is full. No more students can be received for this Course.

For Prospectus, etc., apply the PRINCIPAL.

ELT'S COLLEGE,

North Finchley, N.12.

IDEAL POSTAL COURSES for PRELIM., "HALL" AND MINOR.

Full particulars sent on application.

WESTMINSTER COLLEGE OF PHARMACY.

Established 1874. *STAFF:* *Phone: 1728 Brixton*
G. S. V. WILLS and P. H. WOODNOTH (Principals).
W. A. KNIGHT, Ph.C., Pereira Medallist. J. G. EVERETT, Ph.C., Council Medallist. T. E. DUNSTAN, M.P.S.

Benches are now being reserved for a three-months' Revision Course commencing in April, in preparation for the July Examination, 1921.

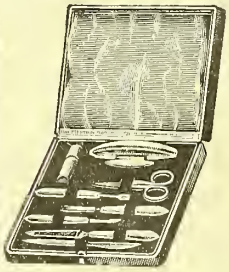
For Details of Arrangements, Pass Lists, and Prospectus, Apply to THE PRINCIPALS, 190 CLAPHAM ROAD, LONDON, S.W. 9.

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 43 Great Tower Street, LONDON, E.C. 3.

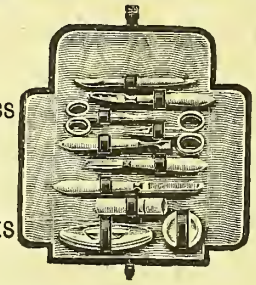
We Manufacture all we sell. **We have representatives in Manchester, Glasgow & Ireland.** **Wholesale & Shipping only supplied.**



MANICURE SETS
MANICURE PARTS
HANDLES
NAIL FILES



DRESSING COMBS
DUST COMBS
BRUSH BACKS
ERINOID ARTICLES

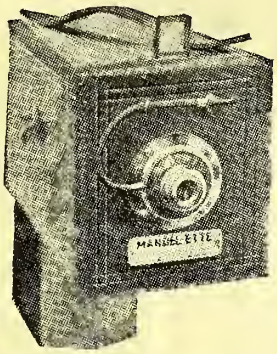


MYERS, LUMOS & CO.,
Sales Offices • 35/6 Aldermanbury, E.C.

Ring up City 3526.

Factories:
Islington & Finsbury Park, London, N.

No Plates or Films.
No Printing.
No Dark Room.



A Second to Take and a Minute to Finish a Picture.

SPECIAL OFFER
TO CHEMISTS & DRUGGISTS

PHOTOGRAPHS in One Minute

The MANDEL-ETTE CAMERA takes photographs 2½ in. × 3½ in. direct on to postcards WITHOUT FILMS, PLATES, PRINTING OR DARK ROOM. Camera weighs 24 oz. and measures about 4 in. × 5 in. × 7½ in. Loads in daylight with 15 or 50 cards at one time —NO DARK ROOM NECESSARY. Universal focus lens produces sharp pictures at all distances. Permanent Results.

MANDEL-ETTE CAMERA

Equipped with the new wire release perfect working shutter. Combined 3 in 1 developer eliminates any other solution. Pictures develop automatically in less than a minute. Cannot over-develop.

RETAILS AT £3 10s. (including Tripod); £3 (without Tripod).

Apply for Particulars of liberal Trade Terms to
A. E. NORTON, 259 HIGH HOLBORN, LONDON, W.C. 1.

Wm. FOX & SONS FOX FOTO SHEFFIELD

Workrooms:
8 Castle St.,
SHEFFIELD.

Trade Terms on receipt of trade card.

DEVELOPING. PRINTING
FORWARD YOUR FILMS TO FOX!
ENLARGING
Don't disappoint your customers with inferior results when you can ensure *the best* by availing yourself of the FOX 'FOTO' SERVICE. Expert work! Keen Prices! Expeditious dispatch!

LUMEX ENLARGEMENTS.

Our new and up-to-date Enlargement Studios at Grafton Street, Dublin, are now open and are staffed by Specialists and Artists.

Every Negative is carefully scrutinised and the use of suitable grades of paper ensures the best possible results.

THE TRADE ONLY.

DEVELOPING PRINTING
LUMEX LTD DAME LANE DUBLIN.
ENLARGING
Phone 4310 DUBLIN.
Telegrams "LUMEX DUBLIN."

ENLARGING

From your customers' negatives—any size—
:: reproduction of faded photographs, etc. ::
Are you getting your share of orders?
We undertake every class of work.
Price right — Quality Right — Delivery
:: :: :: Unequalled. :: :: ::
Trade Terms and Lists Free.

WALLACE HEATON LTD.
17-27 Change Alley, SHEFFIELD.
Telephones: 3390, 27, 255. Telegrams: "Zodella Sheffield."

QUALIFYING ("MINOR") EXAMINATION

Up-to-date Systematic Correspondence Course. Complete, Thorough and Individual Tuition. Coaching in Individual Subjects.

Special Revision and Preparatory Courses.

MANY TESTIMONIALS. SUCCESS ASSURED. LOW INCLUSIVE FEES.

C. A. SCURR, M.P.S., F.S.M.C., F.I.O., 40 Courthope Road, Hampstead, LONDON, N.W.3.

FRED^K. FINK & CO.,

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

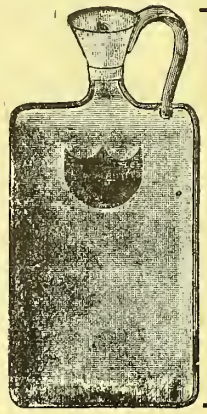


SHADEINE

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses. Trial Size 8d., per post 10½d. 1/4 size, per post 1/7; 2/6 size, per post 2/9; 3/9 size, per post 4/3; 6d. size 6/- doz.; 1/4 size 12/- doz., 2/6 size 24/- doz. 3/9 size, 36/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.



VINCENT WOOD'S

(GOLD MEDAL, GUARANTEED)

Hot Water Bottles

8/- lb. 12×8 weighs under 13 oz.

Covers for same, assorted sizes, 24/- doz.

BELTS TRUSSES
SUSPENSORIES
& Surgical Appliances

AT LOWEST CURRENT RATES

91 & 93 Newington Causeway, London, S.E. 1.



CACHETS "FINOT"

(White or Coloured),

With Inscriptions in any desired tint: also Plain or Embossed.

"A distinction all their own."—*C. & D*

"Perfection of Cachets."—*Lancet.*

These Cachets are especially adapted for Headache, Neuralgia and other powders.

COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.

In 17 Sizes, to fit the various types of Cachet Machines

NAIL FILES, SCISSORS, CLIPPERS, INSTRUMENTS.

——TWEEZERS & FORCEPS.——

Special quotations to large buyers.

HENRY W. SCURR, HENRY RD., SLOUGH

John E. Raworth & Moss

Chartered Patent Agents.

Patents, Designs and Trade Marks.

The Old Mansion House, 73 Cheapside, E.C. 2. AND *75 Victoria Street, Westminster, S.W.1.*

MECHANICAL DENTISTRY.

To INCREASE YOUR PRACTICE send your Work to

A. G. FENTIMAN.

Every case executed under personal supervision, thus facilitating fit and giving complete satisfaction. Send for price list, &c., to (the only address)

A. G. FENTIMAN, 22 Duke St. (off Bishopsgate), Brushfield St., London, E.1

Telegrams: "Fentident Ave, London." Telephone: London Wall 7.

PIPES AND SMOKERS' REQUISITES

Price Lists on Application.

HARWOOD BROTHERS.

BRIAR PIPE MANUFACTURERS,

8/20 Richmond Street, LIVERPOOL.

YOUR SALES LETTERS

Profitable sales letters which will create you new business are my speciality—results I have obtained for others can be yours also. I work on scientific principles applied to individual needs, with your goods on my desk. My services are free for a limited number of clients—take advantage of my ability now.

A. V. HYDE, 28 MONUMENT STREET, E.C. 3.

Anthony Leighton.

Best Shampoo for Kiddies.

When on view never yet failed to interest a mother. It rids childrens' heads from pests in a nice way and is the ideal Kiddies Shampoo.

WE WILL SEND YOU — CARRIAGE PAID

A splendidly got up 6 doz. box with 1 doz. 6d. packets as Bonus with plenty of show material at once. Send p.c. immediately.

4/- DOZ ALWAYS ADVERTISED 43% UNFAILING SALES. 6c Each PATA

LEIGHTON LABORATORIES. 35 GRAYS INN ROAD W.C.1.

HAVE YOU TRIED OUT OUR OFFER?

of 6 dozen and 1 dozen 6d. packets, along with full advertising matter for window? Carriage Paid to your address. Sales are immediate directly

4/- PER DOZ. P.A.T.A. 6D PER PACKET

Quin-Quenna

BETTER THAN A SHAMPOO

is shown because it is the subject of a big and clever campaign embracing all best media.

43%

CHRISTY'S Old Swan Lane, London, E.C.4.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co. Ld.

The Largest Makers in the United Kingdom.

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St, Liverpool.

FINEST **BLACKS** AND

COLOURS

(ALL SHADES)

CARAMEL COLOUR

IN POWDER.

Guaranteed Harmless.

50

times the concentration of Liquid Caramel.

Sample on application.

Soluble in

WATER SPIRIT
OIL TURPS
WAX BENZOLINE
GLYCERINE NAPHTHA
PETROLEUM CREOSOTE
and
IN FACT—ANYTHING.

BLACK FOR INK.

MARKING INK.

ETERNITE

A combined Stain and Preservative for Wood

HOUSEHOLD DYES.

RHEUMSOL BATH SALTS

In 1/- Tins.

WILLIAMS BROS. & CO.

Hounslow, Middlesex.

IT PAYS TO PUSH
JOHN BOND'S
"CRYSTAL PALACE" MARKING INK

It is Not Only The Best.



But Shows The Most Profit.

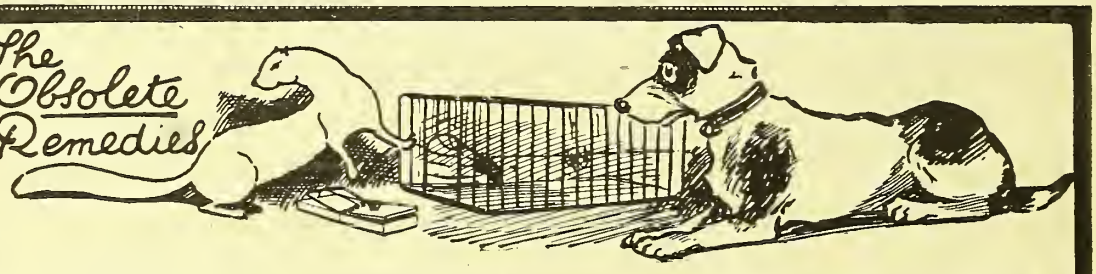
6d. size, **4**/- per doz., Minimum protected selling price, **5½**d. 1/- size, **7**/**6** per doz., ditto **11**d.

MINIMUM ORDER AT WHOLESALE RATES:—One Gross of 6d. size amounting to 42/- or assorted order to same value. 1/- size 77/- per gross. Carriage paid on Parcels of £2 2s. and upwards, subject to the customary discount on quantities. Smaller quantities should be ordered through any of the Wholesale Houses.

When ordering, please specify if HEAT or NON-HEAT is required. A good assured Minimum Profit on this Marking Ink which will always make new customers.

Compare with what you are paying for other makes, and NOTE the difference.
Manufactory: 75 SOUTHGATE ROAD, LONDON, N. 1.

The Obsolete Remedies

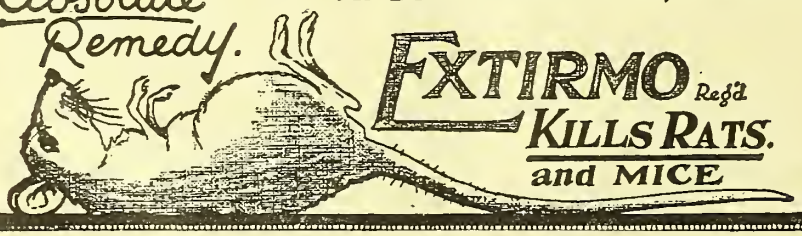


A READY SELLING RAT POISON

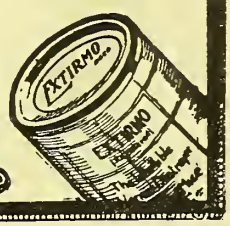
of proven value. It is on the Government List. It always retains its effectiveness—therefore creates no bad stock. Now being advertised in the Press. Helping your sales and therefore ours. Extirmo retails in tins at 7½d., 1/3, 2/6, and 5/-, and shows you a splendid profit. *Are you stocking Extirmo?* Write to-day to the manufacturers for full particulars. Prompt deliveries for either Home Trade or Export.

E. H. WRIGGLESWORTH, Ltd.,
ST. ANDREW'S WORKS, HULL.

The Absolute Remedy.



EXTIRMO Regd
KILLS RATS and MICE



BACK TO "RODINE."

Mr. H. J. Morgan, Chemist, Kimbolton, writes:—July 27, 1920. "People are again asking for 'Rodine' after having tried the new much-advertised so-called Rat Poisons. They say that they want **'RODINE,'**

NOT THAT NEW-FANGLED STUFF

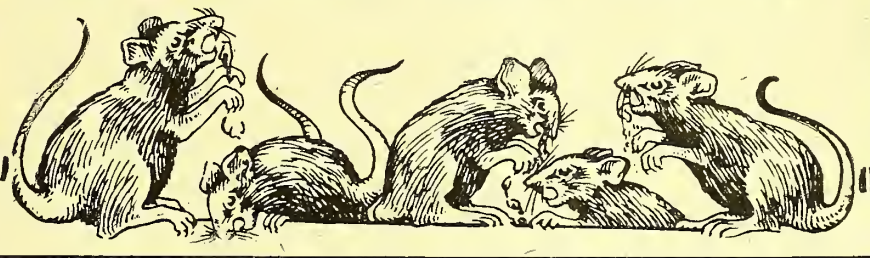
that the Rats thrive on. Some people go as far and say that the novelties in Rat Poison entice the Rats and Mice and then feed them, as they have watched them take it away, none being found dead, but apparently increase in numbers."

"RODINE" HAS NO EQUAL.

Mr. H. B. Wyllie, Chemist, Edinburgh, writes:—17/2/20. "Please send on more 'Rodine.' There is no Rat Poison has its equal as regards sales and effectiveness in the destruction of Rats and Mice."

"RODINE" is the efficient Rat Remover that gives satisfactory results to all users, with the minimum of trouble. *It Requires No Signature.* It yields nearly 100% protected profit. Send for a 20/- carr. paid order to-day on best terms. Post at once to—

HARLEY, Manufacturing Chemist, **PERTH, SCOTLAND.**



MORRIS, LITTLE & SON, Ltd., DONCASTER

SHEEP DIPS Poisonous and Non-Poisonous of all kinds.
DISINFECTANT SOAPS of all kinds.
Sole Proprietors and Manufacturers of
PHENOID (formerly called PHENYLE).

DISINFECTANTS of all kinds, including LYSOL SUBSTITUTE and High Co-Efficients.

Largest Makers of Non-Poisonous Sheep Dip in the World.



OAKEY'S
"WELLINGTON" KNIFE POLISH

The original and only reliable preparation for Cleaning and Polishing Cutlery, &c.

In Canisters, 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

JOHN OAKEY & SONS, Lim.
MANUFACTURERS OF
Emery Cloth, Black Lead
GLASS PAPER, &c.

"WELLINGTON" KNIFE POLISH
The Original Preparation for Cleaning Cutlery. Canisters, 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

SILVERSMITHS' SOAP
For Cleaning & Polishing Silver, Electro-Plate, etc. Tablets, 6d.

"WELLINGTON" BLACK LEAD
In Solid Blocks, 1d., 2d., and 4d. each, and 1s. Boxes.

Polishing Paste, Furniture Polish, Plate Powder, Rouge, Urn Powder, Steel Polish, Crocus, Tripoli, Brunswick Black.

Westminster Bridge Road, LONDON, S.E. 1.

WHITAKER & Co.'s PAGE

"The LUTON HAT DYE I purchased was perfect."—
STREATHAM COMMON.

GLOSSY SERIES also supplied if desired.

"I am very pleased with the GLOSSY HAT DYE. It has answered splendidly."



LUTON
STRAW HAT DYES

Special NON-INFLAMMABLE SERIES for Export.

From a Dealer:—
"I find your dyes sell well—in fact, better than any others I have had."— KNEBWORTH.

WHITAKER'S UNIVERSAL FABRIC DYES
WITHOUT ACID & WITHOUT PREPARATION

From a User:—
"I think they are splendid."—
KIDDERMINSTER.

Retail at 2d., 3d. and 6d. (Packed in neat cardboard boxes of 1 dozen.)

STRIKING AND ATTRACTIVE SHOWMATTER SUPPLIED

Write to-day for Complete Price Lists and Patterns to
WHITAKER & CO., Colour Works, KENDAL

Telegrams: "Dullette Kendal." Telephone: No. 214.

London Office and Showrooms: Craven House, Kingsway, W.C. 2.
Telephone: Gerrard 1774. Established 1878.

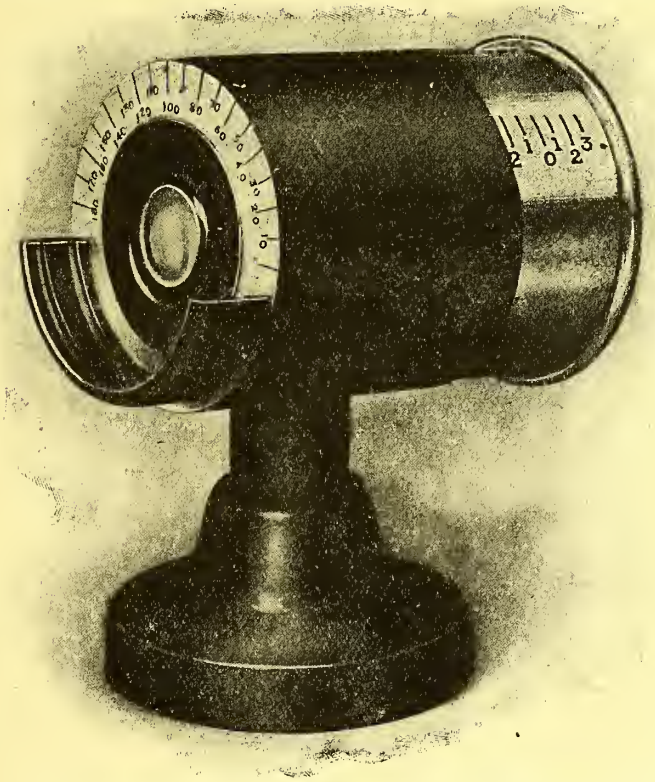
Telephones:
Private Branch Exchange
Holborn 1388 (3 lines.)

Telegrams:
"Astigmatic, Smith, London"
Cables: "Astigmatic, London"

RAPHAEL'S LTD.

HATTON GARDEN, LONDON, E.C.1

STUDENTS' REQUISITES

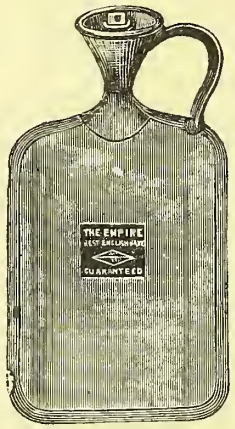


Made of oxidised brass, with graduated arc and lens-holder in front.
Fitted with a X20 D lens.

A reproduction of the fundus is placed in the rear of the inner tube, the latter being movable in or out at will. The outside is graduated for Emmetropia, Hypermetropia and Myopia.

Druggists' Sundries

HOT WATER BOTTLES.



It is always wise to be a little ahead of time. That is why we are asking you to send us your stock order for **Hot Water Bottles** now. Winter will soon be here, and Sales booming. But you must keep up your reputation for reliable quality. If you have stuck to our "EMPIRE" Brand that reputation is made. Do not risk it by trying an unknown make. This year's prices are as follow :—

One Quality Only—the Best. Guaranteed for two years.

"EMPIRE" BRAND, heavy make.

Sizes in inches	6 × 8	6 × 10	6 × 12	8 × 10	8 × 12	8 × 14	10 × 12	10 × 14
each	4/5	4/9	5/2	5/6	6/-	6/9	7/-	8/-

Each Bottle in a strong paper bag with directions for use.

HOT WATER BOTTLE COVERS.

Scarlet or grey plush.

Sizes in inches	6 × 8	6 × 10	6 × 12	8 × 10	8 × 12	8 × 14	10 × 12	10 × 14
each	1/9	2/-	2/6	2/9	3/-	3/6	3/9	4/3

MUFF WARMER, drab rubber, 4 × 6 in. each 2/-.

CLINICAL THERMOMETERS



Having overcome the War-time difficulties in the manufacture of these goods, we can now guarantee prompt delivery of orders. Each Thermometer is verified and stamped at the National Physical Laboratory, Kew, and can be thoroughly relied upon. High prices still remain, but the main thing is quality for the money—that we guarantee to give you.

PRICES.

Hospital pattern	per doz. 28/-	60 seconds, lens front ...	per doz. 38/-
,, ,, lens front	,, 31/-	30 seconds, plain	,, 40/-
60 seconds, plain	,, 34/-	,, lens front ...	,, 44/-

Each Thermometer in Metal Case.

HOUSE THERMOMETERS, Etc.

No. 1008	House Thermometer, assorted colours, 8 in.	per doz. 12/6
,, ,,	for Sick Room, 8 in.	,, 18/-
No. 1009	Bath ,, floating, plain wood, 10 in.	,, 17/6
,, ,,	,, ,, 12 in.	,, 18/6
No. 1608	,, ,, in japanned metal frame 10 in.	,, 30/-
	Lactometer (milk tester), in card case, complete with directions for using	,, 14/-

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for new illustrated PRICE LIST, post free for the asking.

BURGE, WARREN & RIDGLEY, Ltd.

91 & 92 GREAT SAFFRON HILL, LONDON, E.C. 1.

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST. LONDON, E.C.4.

OCTOBER 2, 1920

This Supplement is inserted in every copy of The Chemist & Druggist

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION,

1.—CITY PHARMACY.—Position unique; returns, under management, upwards of £4,000 yearly, at good prices; double-fronted, well-fitted shop, fully stocked; price about £2,000.

2.—MIDDLESEX (few miles out).—Ready-money Business; returns, including small branch, over £50 weekly, *at excellent profits*; capital opening for two energetic men; price £1,600.

3.—LONDON, S.W.—Old-established Business, chiefly ready money; returns, present rate, £40 weekly; scope for development; well-fitted shop, corner positiou; good stock; held on lease; price about £1,800.

4.—HOME COUNTY.—Good-class Retail and Dispensing Business, situate in centre of good market town; returns over £50 weekly, at full prices; there is a residence, with private entrance, bathroom; valuation terms entertained.

5.—KENT.—Modern Pharmacy, situate in centre of busy shopping thoroughfare; returns between £2,000 and £2,500; attractive, well-fitted shop, fully stocked; new lease will be granted.

6.—ESSEX COAST (Popular Watering-place).—Retail and Dispensing Business; all good middle-class trading; returns £2,500; opening for extended trade; comfortable residence; held on lease.

7.—NORTH-EAST COAST.—Lock-up Pharmacy; returns, present rate, £70 monthly; scope for considerable increase; *net profit* 25%; rent £30; new lease will be granted, or premises may be purchased; price to be agreed.

8.—SURREY.—Good-class Retail and Dispensing Business, situate in the best part of a charming residential locality, within easy distance of town; returns, including branch, upwards of £4,500 per annum; the investment is suitable for a partnership.

9.—SOUTH-WEST OF ENGLAND.—High-class Drug Stores; returns approach £2,000; scope for considerable increase under qualified management; good house and garden; held on lease; price £1,200.

10.—SOUTH COAST.—Old-established Business; mostly own Proprietaries and Prescribing; returns last year between £11,000 and £12,000, *at excellent profits*; further details on application.

11.—GREAT EASTERN MAIN LINE.—Very old-established Business, situate in the centre of market town; attractive shop, fully stocked; above the average; returns about £6,500; *excellent profits*; terms, valuation and sum for goodwill, or lump sum entertained.

12.—L. & N.W. MAIN LINE.—Old-established Business, Wholesale and Retail; returns between £8,000 and £9,000 yearly; under energetio management the gross receipts should be doubled.

13.—MIDLANDS.—General Retail and Dispensing Business, established many years; returns exceed £60 per week; *net profit* 25%; double-fronted shop; held on lease at a rental of £80; price to be arranged.

14.—NORTH STAFFS.—General Retail Business; returns over £2,500; books open to investigation; double-fronted shop; moderate rental; new lease will be granted; price about £1,500.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co., desire to emphasize the necessity of a periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co are prepared to undertake these essential duties, and make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

NORTH STAFFS.—A very excellent, profitable Business, in a prosperous, improving town; up-to-date shop; near the Market Place and Cattle Market, either with freehold or lease; only reason for disposing, ill-health; a fine opportunity for acquiring a sound, old-established business. Apply 211/15, Office of this Paper.

SOUTH WALES.—Old-established Business for Sale, with house attached and numerous storerooms; incomplete stock valued at £300; surrounded by extensive agricultural district; position unique; good opening for energetic man; house and shop freehold; price £1,000, or near offer. Apply Evans, "Cresswell," Langharne, Carmarthenshire.

CHEMIST and Druggist; Camberwell; established 30 years; present hands 2 years; well-fitted shop; 7 rooms; rent £45 (3 rooms let off, £38); trade average £14; neglected; price £300 or near offer; reason for selling, want of capital and ill-health. Apply Baker & Jarrold, 169 Boro' High Street, London Bridge, S.E.

FOR Sale in country town, Scotland, very profitable Chemist's Prescribing Business, with three exceedingly good specialities; price, including £300 goodwill, £1,150, or higher offer. Apply 206/14, Office of this Paper.

LARGE flourishing Rexall Chemist's Business; important part of S. Wales coalfield, with living accommodation, in best part of district, with additional Rexall & Boots' lines coming, and large industrial developments proceeding here; future is bright for years in export coal trade of S. Wales. Apply 198/33, Office of this Paper.

OLD-ESTABLISHED Business, in small market town; turnover well over £3,000, and steadily increasing; best position; heavily stocked; price £2,200; good house; lease. Particulars, "Oleum" (211/29), Office of this Paper.

MANUFACTURING Proprietary Business; well established, with exceptional prospects; chief Proprietary well known and already well introduced; should in itself produce a fortune in the hands of energetic individual, especially one who can create selling organisation; proprietors, who have other and larger business claims, are prepared to allow large portion of purchase amount to remain in business if purchaser inspires confidence; price £5,000, including freehold, up-to-date factory. "Statim" (36/408), Office of this Paper.

TWO Drug Businesses for Sale; one Lancs and one North; both will suit unqualified man; Lancs returns between £500-£600 a year; North over £1,000 a year; both in the main streets; mostly Prescribing and Surgical business; owner retiring; no reasonable offer refused. Apply 208/40, Office of this Paper.

PARTNERSHIPS.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

PHARMACIST, experienced in the manufacture of all Medicinal and Toilet Counter Specialties on a large scale (including Tablets, Capsules, and all Toilets), and with a few hundreds of capital, desires interest in a progressive manufacturing house, or would join others in starting same. Please reply "Statim" (207/22), Office of this Paper.

QUALIFIED Chemist, ex-Captain, recently demobilised, now seeks active occupation as Partner (or otherwise) in sound business (Wholesale or Retail); 36 years of age; with best experience in London, provincial, and Continental Pharmacies; lato Representative in London and South Africa of a leading London Wholesale house. Apply 213/5, Office of this Paper.

WANTED, Partnership in high-class Pharmacy; reliable and energetic; living accommodation attached or available; healthy locality; capital available £500. "Rhei" (205/38), Office of this Paper.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1. SOUTH MIDLANDS (market town).—Sound light country retail business in very best position, showing steady increase. Returns over £2,250; easily worked. Large house and garden, own property. Will sell or grant lease. Stock and fixtures worth about £1,100. Price £1,600 cash or £2,900 including freehold. £600 can be left on mortgage. Personally inspected, and strongly recommended.

2. LONDON, N.W. (few miles out).—Unopposed, light cash retail; no photo, optics, or N.H.I. Returns £35 a week; good profits; comfortable house and garden; moderate rental; lease granted; fully-stocked shop; modern fittings. Price £1,400. Qualified man would do much larger turnover.

BUSINESSES WANTED.

STOCKTAKING.

We are now booking dates for October and November, terms sent on application.

ESTABLISHED 1870.

THE ASSOCIATION OF MANUFACTURING CHEMISTS

— LIMITED —

Chemists' Transfer Agency, Auction and Valuation Department,

Head Offices—31 Kimberley House, 14-17 Holborn Viaduct, London, E.C. 1

Telephone: City 6942. Teleg. Add.: "Asmanist. Cent, London."

Liverpool Office—35, 36, 37 Exchange Chambers, 2 Bixteth Street - - - - Liverpool

We have the following Businesses for disposal:

PICCADILLY.—Retail Dispensing Chemists; lock-up shop; rent £95 p.a.; tenancy agreement with six years to run; returns average £1,800 p.a.; majority ready money, but good accounts carried; stock estimated £600; under management; in present hands four years; nicely fitted; net profits estimated £350; offers invited.

CAMBERWELL.—Compact Drug Stores; small shop adequately fitted; dwelling accommodation attached; parlour, dispensary, six rooms, shed, and good-sized garden; gas on all floors; separate meter and water for upper part; rent £45; three rooms let off at £38 p.a.; three years' agreement, with option of 14 years' lease; established 30 years; very much neglected.

SUTTON, SURREY.—Good old-established Retail Dispensing Chemist's Business; held on lease, with 16 years to run; rent £100; excellent dwelling accommodation; well-fitted shop; good stock; returns average £30 per week; scope for increase; offers invited.

LONDON, WEST-END.—Good-class Chemist's Business, situate in busy thoroughfare; returns average £30 per week at excellent profits; nicely fitted shop with dwelling accommodation; excellent stock. Further particulars on application.

LONDON.—Small Drug Stores, busy thoroughfare; monthly tenancy at rental of 11s. 8d. week. Full particulars on application.

We have a large number of Chemists on our Register requiring Businesses on the South Coast and West of England, and should be glad to hear from intending Vendors, with full particulars of their Businesses. Our methods are strictly confidential, and we are constantly in touch with genuine Buyers, both Wholesale and Retail. Valuations prepared for Purchase, Sale, Income Tax, Balance Sheet, Probate, etc.

PARSON C. BAKER,

Pharmaceutical Chemist, M.P.S.

4 CYPRUS ROAD, CHURCH END, N.3

WM. ROOKE ROBERTS, M.P.S., F.S.M.C.

174 VICTORIA STREET, S.W.1. Tel.: Victoria 27

Valuers for Purchase, Sale, Probate, Income Tax, Balance Sheet, &c.

Recommended by the British Drug Houses, Ltd., Messrs. Meggeson, Ltd., Messrs Barclay & Sons, Ltd., and many other leading Wholesale Houses.

Valuers to the Association of Manufacturing Chemists.

Make a Speciality of the examination and reporting fully to Vendors or Purchasers as to Value, Prospects, Conduct, &c., on Moderate Terms.

Registers kept of Businesses for Sale. No Charge to Purchasers. Enquiries invited Personal attention given in all cases.

STOCKTAKING IS NOW A BUSINESS NECESSITY

Write for Terms to

Ernest J. George

202 Birmingham Road,

(Thirty Years' Drug Trade Experience) ***Walsall.***

Chemists' Accountant, Valuer, Transfer Agent and Expert Stocktaker for Sale, Purchase, Income Tax, etc.

Books Written Up. Balance Sheets Prepared. Prescriptions Priced.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

LONDON OR SUBURBS, with immediate (or early) possession; good Dispensing and Retail, returning from £3,000 to £5,000; prompt cash. Write, 4/63B, Office of this Paper.

ADVERTISER, returning England, wants established Mixed Drug Store; scope for Stationery and side-lines, wine licence, or P.O. not objected to; house with garden, or pleasant living locality handy; will buy premises; particulars kept strictly private. Advertiser cannot reply till about October 25th. Apply "Liverpool" (207/34), Office of this Paper.

GOOD country Business wanted, in November or before; good living accommodation. Particulars, in confidence, to "Genuine," c/o Harris, 3 Southcote Road, Bournemouth.

GOOD-CLASS Retail or Dispensing Business wanted; £3,000 to £4,000 cash at command; residential locality or health resort; particulars will be treated with strictest confidence. Smith, Chemist, 24 Leamington Road Villas, Westbourne Park, W. 11.

PHARMACIST desires to purchase for cash, £550-£650, a genuine Business, with scope for increase, situated in a good-class district; comfortable house essential. Please send full particulars, in strict confidence, to "Chemicus" (209/11), Office of this Paper.

SPOT cash, Pharmacy wanted, main thoroughfare; returns about £2,000; South Coast or near; cash available £1,000. "H.," 35 Hampton Place, Brighton.

WANTED, country Business, or one in a health resort or good-class country suburban district; returns from £1,500 to £2,500; cash ready; South of England essential; satisfactory investigation needed; opportunity for Chemist thinking of retiring. Write "Chemist," No. 1 The Balconies, Liss, Hampshire.

WANTED, first-class Cash Retail Business; turnover about £5,000; situated in high-class coast or inland health or riverside resort (not South Coast); must have modern, well-fitted shop, with good storage; compact and well organised; must have available modern, comfortable house, with garden, near to business. Apply Hands, Chemist, Campden, Gloucestershire.

APPRENTICESHIPS.

APPRENTICE.—Youth, 5 ft. 10 in., age 16, passed Senior Oxford. Particulars, S. Cornish, 30 North Row, Warminster, Wilts.

AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

EUROPE.

A WELL-ESTABLISHED firm of Buying Agents in Amsterdam, with good connection among the Wholesalers of the Continental markets, invites communications from Manufacturers of Druggists' Sundries or Proprietary Lines, with a view of selling their articles on the Continent. The Manag-ing Director of the firm is at present in Loudon for a few days; English bankiug and trade rcferences. Apply 213/4, Office of this Paper.

PARIS.—French gentleman, 38, with business experience, highest refereuces, desires to hear from British firms who wish to establish agenoy or depôt in Paris, Foodstuffs, Chemicals, Raw Materials for Perfumery, etc. Write "B. V.," Box 790, Smiths' Agency, Ltd., 100 Fleet Street, E.C.

A LANCASHIRE firm of Wholesale Chemists, with commodious central premises, Travellers calling on Doctors and Chemists throughout Lancashire and Yorkshire, own motor de-livery scryice, are open for an additional Agency; propaganda work undertaken. Apply 209/2. Office of this Paper.

FIRM OF MANUFACTURERS' AGENTS, established over 20 years, with premises in central position in Glasgow, is open to take up Glasgow or Scottish Agency for anything that interests Wholesale or Retail Chemists; over 600 open accounts in Scotland; can carry small stock. Apply 209/26, Office of this Paper.

FIRM, with Travellers working South and West England, South Wales, and Lower Midlands, calling Chemists and allied trades, open for Agency or otherwise for Medical and Pharma-ceutical Preps., Perfumes, Toilet Articles, and Packed Goods; state terms, which will be confidentially treated. P.C.B. 22/2, Office of this Paper.

REPRESENTATIVE or resident firm, as Wholesale Agents, required for South Africa by a well-known firm of Chemists' Specialists, whose products, including Perfumery and Druggist Sundries, are already well known on that Continent and enjoy a ready sale, but during and since the war has been somewhat neglected. Apply by letter to "Progress" (29/21P), Office of this Paper.

SMALL firm of Manufacturing Chemists in Sydney are open to take up Agency for Australia of British goods suitable for sale to Pharmaceutical Chemists and other retailers. Write to George Roberts, c/o Peek, Frean & Co., Ltd., 158 Drummond Road, London, S.E. 16.

FOR SALE.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

FOR Sale, 23 × 1-gramme tubes Osmic Acid; what offers? Apply P.C.B. 21/27, Office of this Paper.

MAHOGANY Counter, 5 ft. × 4 ft. 6 × 2, glass case front, and drawers at back, L shaped; suitable for cash desk in corner of shop; McCaskey Account Register to hold 500. Whysall & Son, Grantham.

MICROSCOPE, by Carl Zeiss, model C iv.; coarse and fine micrometer screw adjustment; Abbé substage and condenser; triple nose-piece, $\frac{1}{2}$", $\frac{2}{3}$", and 1" objectives, 2 eye-pieces; all practically new; what offers? Freeman, 93 Graham Road, Dalston, London.

MICROSCOPE, Field & Son, excellent condition, $\frac{1}{6}$" and $\frac{2}{3}$" objectives, diaphragm, condenser, mahogany case, bargain, £7; Minor Slides, complete set, nearly new, 18s., in case; Martindale, 2 vols., 17th edition, new, 13s.; Newth, 4s. 6d.; Knight's Materia Medica, 5s. 6d.; Lowson's Botany, 3s. 9d.; B.P.C. 1907, 6s. 6d.; Roth, Memory, complete course, 9s.; Wills' Materia Medica, 2s. 6d.; Muter, 4s. 6d.; Davis Histology, 1s. 6d.; Lupton's Chemical Arithmetic, 2s. 6d.; Mayer's Theoretical Chemistry, 3s. 6d.; Bailey's Metals, 1s. 6d.; Watts' Organic, 2s.; Roscoe's Chemistry, 1s. 9d.; Jones' Practical Chemistry, 1s. 9d.; Ostwald's Analytical Chemistry, 2s. 9d.; Sinclair's Physics. 1s.; Griffith's Heat, 1s. 3d.; Glazebrook's Heat, 2s. 6d.; Wright's Oils, Fats, Waxes, 4s. 9d.; Wills' Analysis, 2s.; Watchmaker's Eyepiece, 2s.; Scott's Structural Botany, 2s. 9d.; Ostwald's Solutions, 3s. 9d.; Dodd's Preliminary Examinations Guide, 1s. 9d.; Botanical Companion, 6d.; Platinum 2 in., 1s. 9d.; Hugo's Spanish Simplified, 2s. 2d.; Legg's Urine Analysis, 1s. 9d.; Arnold's Physics, 1s. 3d.; Wills' Preliminary Exercises, 1s.; Poyser's Magnetism and Electricity, 1s. 9d.; Meissners' German, 1s.; Perceival's Latin, 1s. 3d.; Mansfield's Latin Exercises, 1s. 9d.; Ahn's German, 1s. 6d.; Microscope Guide, 9d.; all post free. "Qualified" (211/27), Office of this Paper.

SURPLUS.—1 oz. Atropin Sulph.; 8 lb. Lycopodium; 56 lb. Shellac; 3 gals. Indian Soy; 4 lb. Gum Tragacanth Sorts; 40 lb. Cloves; 20 lb. Potass. Bichrom.; 4 lb. Pulv. Ipecac.; 4 lb. Acid Tannic; 2 lb. Acetanilide; 1 oz. Otto. Offers, Montgomery, 22 Hendon Road, Sunderland.

PRIVATE TREATY.

FOR SALE BY PRIVATE TREATY.

IN BANKRUPTCY—*Re* P. P. KEATS,
167 Mary Street, Balsall Heath, Birmingham, Chemist.

THE Trustee herein offers for Sale as a going concern the above old-established Business. The premises are leasehold, with about 13 years unexpired, at a moderate rent. Offers are iuvited for the Lease, Trade Fixtures, Fittings and Utensils. The Stock-in-Trade of the estimated value of £2,500 can be taken at a valuation if desired. The Book Debts could also be acquired.

For further particulars apply the Trustee, J. Durie Kerr, 5 Waterloo Street, Birmingham, or Messrs. Glaisyer, Porter & Mason, Solicitors, 9 Bennett's Hill, Birmingham.

TENDERS.

AS previously announced in issues of this Journal, July 10th to 25th, Professor Joshua Barrett invites Tenders for the purchase outright of his far-famed and household "Mandrake Specialities," comprising sole rights, fully registered, and unique trade-mark (Man-on-Drake), Plant, Stock, and bound volumes of testimonials. Established over 40 years. 30 gold and other medals. Goods stocked by leading Wholesale Drug Houses and Cash Chemists throughout the country. On view by appointment. Tenders must be in by October 4th, addressed to Professor Joshua Barrett, Mandrake House, 26 Beechfield Avenue, Blackpool.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

BLACKPOOL.—Qualified Assistant required for middle-class cash business; outdoors. State usual particulars and salary required to C. R. Gaulter, 41 Devonshire Road, Blackpool.

DERBYSHIRE.—Qualified Assistant, male or female, wanted (immediately) to take charge of branch; hours are easy, with no Sunday duty, half-day weekly. Usual particulars, with references, salary expected, how soon disengaged, to Latham, Pharmacist, Shirebrook.

FOLKESTONE.—Junior Assistant, about 20, experienced in best-class Dispensing business, required at once. Apply, giving particulars of experience, references, and salary required (out-doors), to Hall & King, West Cliff Pharmacy, Folkestone.

HARROGATE.—Wanted, Junior (male) for good-class Dispensing and family business; gentlemanly appearauce. Address, with full particulars as to age, salary, etc., to Mr. Leo. Benjamin, 57 Cold Bath Road, Harrogate.

KENSINGTON, W. 8.—Required (immediately), Junior Assistant (male), age about 22; one who has been apprenticed in good-olass business preferred. Kindly state age, height, ex-perience, and salary required (outdoors), to John F. Harringtou, 15 Kensington High Street.

LIVERPOOL.—John McGuffie & Co., 10 Castle Street, require Assistant for City business; smart Counterman essential; age 30 to 40; hours 8.30 to 7; close Saturdays 1; no night, Sunday, or Bank Holiday duty. Apply, by letter, stating salary required.

LONDON.—Junior Assistant required immediately; good Counter-man and Dispenser; give full particulars of experience and salary required. "Junior" (209/250), Office of this Paper.

LONDON, E.—Qualified Assistant, about 30, for N.H.I. and General Counter work; hours 8.30 to 8; alternate Sunday duty; salary £5. Apply to Tate, Francis & Co., 37 Roman Road, Bow, E. 3.

LONDON, S.E. (near London Bridge).—Required, immediately, young Junior Assistant for Counter and N.H.I. Dispensing; usual hours; Thursday half-day; no Sunday duty. Apply per-sonally, or write, giving full particulars, references, and salary required, Austin's, Ltd., 1 Spa Mansions, Spa Road, Bermondsey.

LONDON, S.W.—Smart Junior Salesman, Window-dresser; keen, ambitious worker will have scope; remuneration in propor-tion to services; opportunity to travel if desired; record must bear investigation; Photography an advantage; outdoors. Apply Jackson, 781 Fulham Road, S.W.

LONDON, S.W.—Assistant, lady or gentleman, at once; must be of good appearance and address, tactful, and experienced on Counter, quick Dispensing; lady applicants must be regis-tered. Please give all details, excepting copies of testimonials, in first letter. Address 211/30, Office of this Paper.

LONDON, W.—Smart, unqualified Assistant required at once; Dispensing and Counter; moderate hours; outdoors. Apply, giving full particulars and salary required, to 211/13, Office of this Paper.

LONDON, W.—Assistant wanted for Counter and Dispensing; one with West-End experience preferred. Apply the Manager, Heppell & Co., 26 Piccadilly, W. 1.

MANCHESTER.—Wanted (at once), an experienced, unqualified Assistant; age about 30; state experience and salary re-quired. "Statim" (23/32M), Office of this Paper.

MANCHESTER.—Smart, unqualified Assistant wanted; must be an accurate Dispenser and good Counterman; brisk industrial business, with N.H.I. work; reliable references essential; state age, experience, and salary required. Butcher & Simmons, 329 Chapel Street, Salford.

MANCHESTER DISTRICT.—Competent Junior Assistant, with good Dispensing experience, required at once; congenial conditions; give full particulars, salary etc.; enclose photo. Woodhead, Chemist, Eccles.

N. DEVON.—Wanted, middle of October, capable unqualified Junior, with knowledge of Photography, good Counterman and Window-dresser. State age and height, enclose photo, recent references, and salary required, to E. Gerrish, M.P.S., Quay, Bideford.

NEAR MANCHESTER.—Qualified Assistant wanted immediately; please state fullest particulars, testimonials, age, etc.; N.H.I., brisk Counter trade. Apply 21/51L, Office of this Paper.

NORTHAMPTON.—Experienced Assistant required for good-class business; age about 28; must be good Salesman, smart Window-dresser, and have up-to-date Photographic knowledge; easy hours; no Sunday duty. Apply, stating age, experience, salary required, references, and enclose photo, P. Jeyes & Co., Ltd., Chemists, Northampton.

NOTTINGHAM.—Assistant wanted for Dispensing and Light Retail; must have had experience; please state age, qualifications, and salary required; suit Student; outdoors; short hours; photo if convenient; apply in first instance by writing only; applications not answered in 3 days declined. E. W. Whitchurch, Chemist, 50 Goldsmith Street, Nottingham.

SOUTH WALES.—Junior Assistant required for Counter and Dispensing; permanency to suitable man; state age, salary required, and when at liberty. "Glam" (209/251), Office of this Paper.

WEST LONDON HOSPITAL, HAMMERSMITH, W. 6.

WANTED (at once), a qualified Assistant Dispenser (male); must have had previous Hospital experience. Apply, with fullest particulars, stating age, salary required, and enclosing copies of recent testimonials, to the Pharmacist.

WEST OF ENGLAND.—Smart, unqualified Assistant, 28 or over, with good experience and address, for permanency; good prospects to suitable man who proves himself capable of taking charge; state particulars, including salary, and enclose photo (to be returned). Apply 36/41S, Office of this Paper.

WOLVERHAMPTON.—Qualified Chemist to manage Light Retail and Dispensing business in centre of town; living accommodation optional. Applicants must send full particulars of past experience, stating age and salary required. Martyn's Stores, Ltd., Wolverhampton.

ASSISTANT required, but not necessarily qualified; willing to Dispense a few hours daily at Eye Hospital; single; bed-sitting-room provided. Particulars and salary required to Arnold & Sons, Chemists, Southsea.

ASSISTANT for good middle-class business; small N.H.I. and Photography; able to take charge; comfortable place; in- or outdoors. State salary required and full particulars to Appleyard, Chemist, Shoeburyness.

ASSISTANT Dispenser (male) wanted; Minor qualification of Pharmaceutical Society essential; salary £4 per week, with luncheon and tea. Apply to the Dispenser, St. Mary's Hospital, Paddington, W. 2.

DISPENSER wanted (at once) by Medical Practitioner; married or single; preferably under 30. Apply by letter, stating salary, experience, age, and recent reference, to Dr. Thornton, 573 Romford Road, Forest Gate, E. 7.

ELDERLY qualified Assistant required in suburbs of West Yorkshire town; comfortable and permanent berth. State salary required and when at liberty, "W. R." (209/25), Office of this Paper.

FULLY-QUALIFIED Shop Assistant required at once, for London branch. Apply, with fullest particulars, salary required, to the Casson Chemical Co., Ltd., Westbourne Hall, Westbourne Grove, London, W.

IMMEDIATELY.—A Junior Assistant (unqualified) for good Dispensing and Retail business. W. Pickard, 3 West Kensington Terrace (opposite West Kensington Station), W. 14.

IMPROVER or Junior wanted for high-class Dispensing business; exceptional opportunities for experience. Apply 211/1, Office of this Paper.

JUNIOR (Scotchman preferred) required for good-class Suburban business in healthy district. State experience, age, height, salary expected, and send references, with photo (if possible), Catto, Chemist, 49 Cranbrook Road, Ilford, Essex.

JUNIOR, lady or gentleman, wanted immediately. State age, experience, and salary, to Willis, The Broadway Pharmacy, Cardiff.

JUNIOR or Improver (suit one just finished apprenticeship) for good-class Store business in Yorkshire; short hours; must be a good Counterman, have a sound practical knowledge of Photography, and be well recommended. Fullest particulars, 212/13, Office of this Paper.

JUNIOR, with Dispensing experience, for good-class business, in residential suburb of Birmingham. State salary and full particulars, 210/4, Office of this Paper.

JUNIOR or Improver (outdoor), at once, for good-class Retail, Dispensing, and Photography. Full particulars to A. S. Kitching, Oakengates, Salop.

QUALIFIED Junior for good-class Light Retail and Dispensing business; outdoors. Please state age, height, and experience to Prebble & Bone, Chemists, Chislehurst.

QUALIFIED Chemist, resident in London, required immediately as Manager; must be energetic and full of resource, with a knowledge of Photography and Optics; highest references required. Apply by letter, stating age, experience, and salary required, to "Sodium" (29/211), Office of this Paper.

RELIABLE Assistant, for Dispensing and Retail business, required at once; single. Please give full particulars as to age, experience, salary required, and references, to Reynolds & Johnstone, 17 St. Mary's Street, Wallingford, Berks.

UNQUALIFIED male Assistant for N.H.I. and quick Retail; no Sunday duty; easy hours; comfortable berth (outdoors); progressive salary. Apply, stating age, height, salary required, experience, and references in first letter, to Rowland, Chemist, Hessle Road, Hull.

UNQUALIFIED Assistant (male) wanted in good-class Family and Dispensing business; one just out of apprenticeship would suit. Apply, stating full particulars and salary required, to Gregory & Wrenn, Chemists, Taunton.

UNQUALIFIED Assistant wanted immediately; quick and accurate Dispenser. Also a Junior, mainly for Counter work. T. K. Black, 142 High Street, St. John's Wood, N.W. 8.

UNQUALIFIED Assistant, resident in London, wanted immediately; must be young, energetic, and a good Window-dresser, with a knowledge of Photography; highest references required. Apply by letter, stating age, experience, and salary required, to 29/210, Office of this Paper.

UNQUALIFIED Outdoor Assistant wanted, hours 8 to 7, Wednesday 1, Saturday 8.30; no Sunday or holiday duties; no N.H.I. State experience and salary to Wootton & Webb, Pharmacists, Luton, Beds.

UNQUALIFIED Assistant wanted at once; must have excellent references. Apply, stating full particulars, age, experience, salary required, etc., Wm. Fox & Sons, Ltd., 111 Bethnal Green Road, London, E. 2.

WANTED, smart lady Assistant (outdoors) to be in charge of Sundry and Toilet Counter; good experienced Saleswoman and Window-dresser essential. Apply, in first instance by letter only, giving full particulars, age, salary, experience, etc., J. Milner, 209 Trafalgar Road, Greenwich.

WANTED (immediately), competent, unqualified Assistant, age 25 to 30, male, single, outdoors, for Dispensing and Light Retail; comfortable berth; easy hours. Please state full particulars in first letter, W. J. Green, Pharmacist, Trowbridge, Wilts.

WANTED, good Junior Assistant (male). Apply, giving usual particulars, to A. J. P., Messrs. Plaister & Co., 13 Gledhow Terrace, Old Brompton Road, S.W.

WANTED, a competent Assistant, accustomed to good-class Retail and Dispensing business, with Photographics. Applicants will please give full details of previous experience, age, height, salary required (outdoors), and state when disengaged, D. T. Evans, The Parade, Margate.

WANTED (immediately), Masseur for Medical and Electrical Massage, for small establishment; age 30 to 40; salary and commission to right man. State qualification and full particulars, with recent references, Rayment, Masseur, 70 Stoke Road, Guildford.

WANTED, experienced Assistant, unqualified; outdoors; Light Retail and Dispensing business. Apply, with full particulars, to Ostler & Green, Chemists, 95 High Street, Strood, Kent.

WANTED, on October 5th, for about 14 days, Outdoor Assistant, with good Dispensing experience (fare paid one way). Apply, with full particulars, salary, etc., to F. Pyman, The Pharmacy, Westgate-on-Sea.

WANTED, unqualified Junior Assistant for October 1st; knowledge Photography essential; must have good reference; outdoors. Please state full particulars in first letter, Nidd, Chemist, 714 Rochdale Road, Manchester.

YOUNG unqualified Assistant required immediately for good-class business, near Loudon; Photographic experience essential; state experience, age, salary required (outdoors). Ring up Bromley 346, or write Reeves, Widmore Pharmacy, 195 Widmore Road, Bromley, Kent.

WHOLESALE.

LANCASHIRE firm require first-class Representatives; gentlemen of good standing, connection and address only are suitable; an interest would be considered to suitable persons after probationary service. The ground covered is from Carlisle to Newcastle-on-Tyne and Lincoln to South Wales. Please address replies to Mr. Hoseason, "Stanley Bank," 1 Chesham Place, Stamford Road, Bowdon, Cheshire.

WEST RIDING.—Clerk required, with knowledge of Patents and Drugs, to assist with buying, checking of goods, etc.; one with Retail experience not objected to. Apply, stating age, experience, and salary required, to 210/32, Office of this Paper.

A FIRM of Truss and Surgical Belt Manufacturers requires Representative to canvass Chemists, etc., on commission basis. Applications, stating experience, together with testimonials, 212/21, Office of this Paper.

ASSISTANT Chemist required in the Laboratory of a Wholesale Perfumers, Birmingham district; must have had good experience in the manufacture of Tooth Creams and Toilet Creams, etc., and be capable of exercising supervision over the other hands. Apply "Vanish" (5/32C), Office of this Paper.

COMMISSION Traveller calling on Chemists, Stores, etc., can hear of a first-class readily selling article by applying to 36/390, Office of this Paper.

EXPERIENCED Sugar and Chocolate Coater wanted; preferably one of some experience of Tablet Compressing. Apply, with references, and stating experience, to 37/11T, Office of this Paper.

FIRST-CLASS Representatives required for widely advertised lines, for: (1) Leicestershire, Nottingham, Derbyshire; (2) Birmingham and district; (3) Cardiff and South Wales; (4) Liverpool and North Wales; commission basis. 29/20P, Office of this Paper.

INVOICE Clerk, male, typist, with knowledge of Portuguese and Spanish, and acuestomed to make out Consular Invoices. Write, stating age, experience, and salary required, to "Spain," 56/59 Bunhill Row, E.C. 1.

INVOICE Clerk required; must be good writer, quick and accurate at figures. Write, giving experience and salary required, to Hopkin & Williams, Ltd., 16/17 Cross Street, Hatton Garden, E.C. 1.

LABORATORY man, qualified, wanted; London Wholesale house. Usual details, "X. Y. Z." (23/31M), Office of this Paper.

MILL MAN.—Old-established Druggists, South London, require experienced Mill man. Write, giving full particulars, experience, age, etc., to 4/62B, Office of this Paper.

SALES MANAGER.—Important Druggists' Sundries and Fancy Goods house has vacancy for a capable and thoroughly experienced Sales Manager; only gentlemen who have occupied successful similar position need apply, with full particulars, P.C.B. 21/22, Office of this Paper.

SMART Representatives, with sound connections in Warwickshire, Worcestershire, Herefordshire, Gloucestershire, Staffordshire, Shropshire, and Lancashire, required to push high-class Toilet lines (as side-line), to Chemists and Hairdressers; liberal commission; existing connection handed over. Apply 207/25, Office of this Paper.

TRAVELLERS, calling on Retail Chemists and Druggists, wanted in all parts of the United Kingdom to take up advertised Patent Medicine, on commission only. Write, stating territory covered, and full particulars, to Manager, 126 Elthorne Road, London, N. 19.

TRAVELLERS wanted on commission for entirely new high-class Toilet Soap and Shaving Stick; already taken up by leading London stores; good commission. Write "Repeats," care Deacon's, Leadenhall Street, E.C. 3.

TRAVELLERS wanted, whole-time, for easy-selling and attractive series Toilet Preparations; must have sound connection amongst Chemists and Perfumers in London and suburbs only; one wanted for North of Thames and one for South; salary 50s. week and 7½% commission; only genuine men need apply. A. H. S., "Lexden," Kew Gardens, Surrey.

WANTED, by firm of Wholesale Manufacturing Druggists, Representative for the South of Ireland on commission basis. Apply 207/26, Office of this Paper.

WANTED, a thoroughly experienced Invoice Clerk for checking and extending, by provincial Wholesale house. Apply, stating age and salary required, "Northern" (21/14L), Office of this Paper.

WANTED, Foreman to take charge Caffeine Plant; state experience and salary required. Apply 203/30, Office of this Paper.

WANTED, gentleman, experienced in manufacture of Toilet Articles, Perfumery, and Packed Goods, able to manage a small factory. Write to K., 4 Baalbec Road, Highbury, N. 5.

WANTED, Wet and Dry Counter Hand; age about 25. Write, stating age, experience, and salary required, to P.C.B. 22/10, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

CEYLON.—Chemist, Dispensing, qualified, age 22-28, single, wanted for first-class British business in Ceylon; four years' agreement; passage paid; liberal salary and allowances to smart man with good-class Retail, Dispensing, and Counter experience. Give full particulars of experience and present salary to P.C.B. 22/8, Office of this Paper.

PERSIAN GULF.—Dispenser-Storekeeper required for the Persian Gulf; age 25 to 35; single; three years' agreement; salary £350 per annum, with free quarters and servants; passage paid. Write, giving full details of training and experience, to "Z. W. 347," care Deacon's, Leadenhall Street, E.C. 3.

INDIA.—Chemist's Assistant wanted, Minor qualification not essential, to take charge Wholesale Drug Department; well educated and able to transact correspondence; knowledge accounts advantageous; must have thorough experience Wet, Dry Counters and sundries; four years' agreement; passage paid out and home on satisfactory termination of agreement; salary commencing £420 per year, annual increase £30. Also qualified Assistant for Retail Dispensing Department; good prospects for suitable man; terms as above. Apply "E. H." (9/11E), Office of this Paper.

SOUTH AFRICA.—Qualified Assistant, single, required. Apply, with full details of experience, etc., 36/378, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to the Office, and forwarded on payment of an additional charge of 1/-

A.A.A.—LOCUM; 46; disengaged; take entire charge; highest references; what offers; no fares. "Chemieus," 2 Christian Road, Preston.

A PHARMACIST (26) requires permanency; active, energetic, and good worker; highly recommended; good experience. "Reliable" (211/12), Office of this Paper.

A POST as right-hand man in brisk business; unqualified; abstainer; tactful Salesman; first-rate references; S.W. or Richmond district. "Vim," 75 High Street, Hampstead. 'Phone: Hampstead 2575.

A QUALIFIED Assistant, 27, disengaged, desires permanency; good experience Dispensing and Counter. Weavers, 16 Heslington Road, York.

A QUALIFIED Chemist, disengaged, single, as Branch Manager; experienced; interview arranged. Apply "A. G.," 12 Linwood Street, Greenheys, Manchester.

A QUALIFIED Chemist, with 15 years' first-class references, requires permanent position as Manager, in London, early in October. Chemist, c/o 13 Coniger Road, Parson's Green, S.W. 6.

A QUALIFIED Chemist, with 15 years' first-class references, requires permanent position, as Manager, early October. V. Kirk, 41 Russell Street, Nottingham.

A QUALIFIED Chemist requires situation with Chemist-Optician, where knowledge of Optical work can be acquired; London preferred; aged 23; good experience in Retail and Dispensing. L. G. Smedley, Campden, Glos.

A QUALIFIED Chemist, middle-aged, disengaged, seeks situation; varied experience, active, diligent, reliable; highest references; reasonable salary. Apply 211/17, Office of this Paper.

A QUALIFIED Chemist, disengaged, desires position as Manager or Locum; moderate terms; experieneed. "D.," 22 Highfield Crescent, Southampton.

A RELIABLE lady Assistant requires situation, London; four years' experience Counter, Photographic, and Stock in good-class Pharmacies; disengaged October 11th. Miss Aldous, 5 Windsor Road, Cricklewood, N.W. 2.

A RELIABLE Manager or Managing Assistant requires permanent berth; age 40; married; unqualified; South of England preferred; good references. Gorell, 43 Hall Royd, Shipley, Yorks.

A SCOTCHMAN, 23, qualified, 6 ft., now free, energetic, desires post, England; good reference, with Window-dressing and Photography. Johnson, Southfield, St. Andrews.

AN experienced Dispenser (lady), Hall, experienced Hospital and Surgery; excellent testimonials; London or near. 210/16, Office of this Paper.

ANY Pharmacist desirous of taking a less active part in the management of his business should communicate with me; interview arranged; disengaged November; London and provincial experience; excellent references; married; unqualified (by exam.). "Montpelier," c/o Mrs. Prince, 53 Chipstead Street, Parson's Green, London, S.W.

APOTHECARIES' HALL.—Young lady wants part-time engagement. A. D. S., 7 Pownall Gardens, Hounslow.

AS Manager, Assistant, or Locum; experienced Counter, Dispensing, Prescribing; excellent references; reasonable terms. "G.," 67 Bath Road, Exeter.

AS Manager or some qualified capacity; permanent or relief; 25 years' management in provinces, London, and seaside; references "O.K." Furnival, M.P.S., 28 Melrose Avenue, Cricklewood.

AS Managing Assistant, Drug Store Manager, or Senior, in good industrial district, London, Midlands, or the North; keen and active business methods; Dispensing, Counter, Photographics; 30 years' wide experience; moderate salary. "Mancunian" (210/1), Office of this Paper.

AS qualified Manager or Locum; good all-round experience; town or country; disengaged. J. Fraser, 57 Cranbury Road, Fulham, S.W.

ASSISTANT, unqualified, desires post Manager Drug Stores; disengaged end October. Clark, c/o Hardy & Son, Catherine Street, Salisbury.

ASSISTANT; experienced; private and N.H.I. Dispensing; 25; tall, energetic, keen Salesman; one subject only to qualify; West of England or S. Wales. "Pharmac," 10 Crindau Road, Newport, Mon.

ASSISTANT (21), three years' experience; good Dispenser and Counterman. Apply, stating terms, H. D. Watkins, Ty Clyd, Aberdare.

ASSISTANT (lady) requires post; nine years' experience, five Dispensing, four Retail. Apply Short, 202 Victoria Road, Aston, Birmingham.

ASSISTANT or Branch Manager; unqualified; thorough all-round experience; age 38; married; state salary. "Aitch," 148 Blandford Road, Beckenham, Kent.

ASSISTANT (22), unqualified, deferred in Mat. Med., desires post; excellent Dispensing and slight Counter experience; tall; excellent references. Roberts, 7 Kendal Street, Wigan.

ASSISTANT; all-round experience; middle-class or industrial trade preferred; London; good references; disengaged October. Apply 210/37, Office of this Paper.

ASSISTANT, 26, desires position in a good-class Dispensing business; 11 years' previous experience; salary required £4; please state full particulars. "Provincial" (210/10), Office of this Paper.

BIRMINGHAM preferred, but not essential.—Qualified (27), experienced, disengaged. A. S. W., 154 Bristol Road, Edgbaston, Birmingham.

BRANCH Manager or Assistant; moderate salary; succession considered. "Chemicus," 19 Rockmount Road, S.E. 19.

BRANCH Manager or Assistant; unqualified; 40; good Salesman, Extractor; used to brisk Store trade. Munro, 275 High Street, Lewisham, S.E.

CAPABLE Managing Assistant of business, over £100 a week; five years' large varied experience; energetic; good buyer; disengaged. "Chemicus," 3 Godfrey Road, Newport, Mon.

CHEMIST (32) desires post; £5 weekly; energetic and competent Manager; Midlands preferred. 211/10, Office of this Paper.

CLERICAL.—Evening work of any kind; writing up accounts and posting up books; terms moderate. Write "F. G." (207/37), Office of this Paper.

DISENGAGED, Part I. Minor, 22, desires post as Junior Assistant; moderate remuneration. "H. S.," 20 Park Road, Battersea.

DISENGAGED October 1st; competent, industrious, reliable; Assistant Manager or Locum; thoroughly experienced Counterman, Photography, Dispenser, Prescriber, Sales, Window-dresser; well recommended; terms reasonable. "Chemicus," 239 Camberwell New Road, S.E. 5.

DISENGAGED, qualified, æt. 46, wide experience; Manager or Senior; London preferred; temporary or permanent. "Chemist," 108b Elgin Avenue, W. 9.

DISPENSER (Hall), lady, desires daily post; thoroughly experienced; five years' references; now disengaged. "W.," 48 Buckleigh Road, Streatham.

DISPENSER, lady (Hall), Secretary-Typist, books, seeks situation with Doctor; middle-aged; references. Apply 187/17, Office of this Paper.

DISPENSER to Doctor or Institution; disengaged every afternoon 2 till 5; thoroughly experienced. "J. D.," 151 Clarence Road, Kentish Town, N.W.

DOCTOR'S Daughter (Hall) requires post as Dispenser and Bookkeeper; eight years' best experience. "E. B.," 45 Plympton Road, Brondesbury.

EVENING work by qualified Chemist except Fridays, Saturdays; preferably W. or S.W. district. "A.," 39 Larkhall Rise, Clapham.

EXPERIENCED Assistant; Counter, Dispensing, Photo, Bookkeeping; middle-aged; active; unqualified; disengaged. L. H. P., 3 Wyndham Street, Marylebone, W. 1.

FRANCIS & CO., Chemists, Wrexham, can strongly recommend a qualified Assistant, age 26; salary £5 10s. a week; good Counterman, Dispenser, Photography, and Window Display.

IMPROVER or Turnover-Apprentice; age 17 to 20; abstainer; no Sunday duty; commencing £2 10s. per week (outdoors). Apply, stating age, height, reference, with *carte-de-visite* (to be returned), to T. Siminson, Chemist, Warminster, Wilts.

JUNIOR (20), capable and trustworthy; Liverpool or district preferred; disengaged middle of October. Thomas, 42 Abbey Street, Rhyl.

JUNIOR or Improver (22); five years' experience; small salary for a start. Apply 198/24, Office of this Paper.

JUNIOR (19), 4 years' Dispensing and Counter experience, desires post in Hull. C. Simpson, 120 Clarendon Street, Hull.

JUNIOR Assistant; five years' general experience; 19; knowledge of Photography and Scientific Apparatus; Window-dresser; passed Prelim. exam.; abstainer. Clark, 25 Kingston Street, Cambridge.

LADY Dispenser (Hall) requires post with Doctor, Chemist, or Hospital; two years' experience. G. Evans, Sunnybank, Uplands, Swansea.

LADY Dispenser (Hall) requires post with Doctor or Institution in London; West End preferred; no evening work; good references. P.C.B. 22/6, Office of this Paper.

LADY Dispenser (qualified) requires post with Doctor or Chemist; well recommended; experienced Bookkeeper. Farrow, 65 Mayfair Avenue, Ilford, Essex.

LADY (widow), Chemist's daughter, capable, domesticated, good Cook, wishes position Housekeeper, Doctor, Chemist; good salary; would assist books in evening for overtime pay. Apply 212/7, Office of this Paper.

LIVERPOOL OR DISTRICT.—M.P.S., Medical Student, requires part-time Dispensing or other post; young, energetic; good Dispenser; Photographic experience; capable of taking charge. Apply 208/37, Office of this Paper.

LOCUM, fully experienced, thoroughly trustworthy; disengaged. "Locum Tenens," 8 Summerhill Avenue, Newport, Mon.

LOCUM, disengaged first week in October, young, energetic, qualified, desires Locum work in South Wales for a few weeks; excellent references. Apply "A. B.," 21 Union Street, Merthyr.

LOCUM or permanency; qualified; 44; disengaged; excellent Retail and Dispensing experience. References, "Chemist," 72 Bovill Street, Radford, Nottingham.

LOCUM, disengaged; Hospital or Institution; qualified; quick and reliable Dispenser; excellent references. Green, 4 South Park Parade, Ilford.

LOCUM, disengaged; good Prescriber; winter terms; highest references; well recommended. "Beta," 74 West Hill, East Putney, S.W. 15.

LOCUM, disengaged October 4th; Minor; country; 53; first-class references and experience; energetic; Photography, Optics; moderate terms. Dewey, 4 Montague Gardens, Wallington.

M.P.S., elderly, having sold his business, requires part-time or any light employment; easy work, easy pay. Apply 207/20, Office of this Paper.

MANAGER, qualified; view to succession if possible, not essential; age 39; all-round experience; knowledge of French; West-End and Continental experience. Apply Findlay, 77 Victoria Street, Westminster, S.W. 1.

MANAGER, qualified; long London experience; Photographic; progressive; courteous. "Aspirin," 24 Aldbourne Road, London, W. 12.

MANAGER, Locum, or part-time; experienced; disengaged October 9th. Chemist, 58 Anerley Road, S.E. 19.

MANAGER, qualified, with long and wide experience in all branches, town and country, requires permanency; married. Salary and details to "Omar," 26 Fox Hill, S.E. 19.

MANAGING Assistant (40), unqualified; disengaged; 25 years' all-round experience; temporary or permanent. "Reliable," 1 Belle Vue, Pinner, Middlesex.

MANAGER, Drug Stores; London or provinces; splendid Prescriber; most excellent references; real good experience. "Chemicus" (210/27), Office of this Paper.

PART-TIME or Locum Tenens; qualified; active; middle-aged; free now. W. B. B., 22 Ellison Road, Barnes, S.W.

PASSED Part I.; 24 years' experience; Tyneside preferred; state salary; ex-service. Breckon, 8 Lilac Gardens, Low Fell, Gateshead.

PERMANENCY; unqualified; 37; experienced Dispenser, Photographic, Window-dresser, and all branches Retail trade; London district; outdoors; disengaged fortnight or month; state salary. Apply "A. H." (209/15), Office of this Paper.

PERMANENT or temporary post desired by young, qualified Chemist. Particulars to "Keen," 5 Manchuria Road, London, S.W. 11.

PHARMACIST, 33, married, 18 years' London and provincial experience, desires engagement. For health reasons has had to dispose of partnership interest in the North, and now wishes position in South of England, where sound business and professional experience, initiative, and a strong desire to give satisfactory service are required; expert Dental operator. In reply please state type of locality, business, and salary offered. Apply 207/23, Office of this Paper.

PHARMACIST (22) desires position immediately; 7 years' good Dispensing and Retail experience; excellent referenees. Please state salary and usual particulars, Stancliffe, Highfield Road, Idle, Bradford.

QUALIFIED (23), good references, desires post temporary or permanent; Hospital, Chemist, or Doctor. Oakes, Homestead, Brownhills, Walsall.

QUALIFIED (25), College Silver Medallist, desires position in Manchester district; excellent Dispensing and Photographic experience; highly recommended by G. A. Mallinson, Ltd., Withington. A. Hirst, 15 Victoria Road, Withington, Manchester.

QUALIFIED lady requires post; six years' experience high-class Dispensing, Counter, and Photography. Rugg, 2 Jeffreys Road, Clapham.

QUALIFIED, 44, requires permanent position; reliable, energetic; highest references as Manager, etc.; London or South of England; £6; disengaged. Apply 22/300, Office of this Paper.

QUALIFIED, energetic, first-class experience with Photography, desires situation (Croydon area preferred, not essential); capable of taking charge. Please send usual particulars to Nash, 6 King's Drive, Eastbourne.

QUALIFIED (24) as Assistant; London or suburbs; references; permanency. "Scot," 23 Northumberland Avenue, W.C. 2.

QUALIFIED (27), Manager or Assistant, seeks position; 8 years' high-class Dispensing and Counter experience; excellent references. Bradbury, 14 Westbourne Avenue, South Shore, Blackpool.

QUALIFIED (23), ex-Service, offers services; Wholesale or Retail; reasonable salary. Shepherd, 75 Victoria Street, Bradford.

QUALIFIED Manager or Locum; disengaged October 4; experienced in high-class business. Smith, 113 Brndenell Road, Upper Tooting.

QUALIFIED Junior (25) desires situation; disengaged in week; moderate terms. Apply Pharmacist, 48 Alexandra Road, Newport, Mon.

QUALIFIED; 30; good all-round experience; Photography; disengaged. Apply 211/16, Office of this Paper.

QUALIFIED, Manager or Locum, disengaged; age 50; highest references; abstainer; very capable and energetic; could work up neglected business or take position of trust. Apply 211/37, Office of this Paper.

QUALIFIED, 24, desires permanency or Locum; Retail, Dispensing, and Photographic experience; reliable; disengaged now. "M.P.S.," 32 Alnwick Road, South Shields.

SENIOR, qualified, with every possible experience of Retail trade (English, Indian, Colonial), desires engagement in West of England. A. F. Collis, 3 Margaret's Buildings, Bath.

SMART, experienced Assistant; expert Counterman; good address; highest references; disengaged. N., 11 James Street, Paddington, W.

STOP! You need a keen, young, qualified Assistant? then write King, 158 Bengeo Street, Hertford, without delay; 7½ years' first-class Dispensing, Counter, Photographic experience; permanency preferred.

SOUTH OF ENGLAND.—Locum or permanent; small salary; young; good-class Dispensing. "Pharmacist," 7 Stanfield Road, Winton, Bournemouth.

UNQUALIFIED (30), over 10 years' good, all-round experience, seeks position with good firm; London, West-End or near, preferred. H. M. Marshall, 100 Ledbury Road, W. 11.

UNQUALIFIED.—Manage or assist; experienced, reliable; excellent references; good Salesman and Prescriber; free October 4; age 38; Locum entertained; reside on premises if desired. "Worker" (212/17), Office of this Paper.

UNQUALIFIED Assistant; 36; experienced Counterman and Dispenser; disengaged; London; excellent references. Vaughan, 29 Stile Hall Gardens, W. 4.

YOUNG lady, 17, requires situation in Retail Chemist's as Packer and Counter; experienced. Apply "Mertona," 272 Merton Road, Wandsworth, S.W. 18.

27. QUALIFIED; abstainer; experienced; exceptional references; interview; permanency; free October 5th. "M.P.S.," 10 Louvaine Road, Clapham Junction, S.W. 11.

£4 PER week; Manager; qualified; good experience; successful worker; highest references; disengaged; town or country. "G." (209/39), Office of this Paper.

WHOLESALE.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

ADVERTISER, travelling North of Ireland, would carry Medicinal Tablets or other small samples on commission basis. Apply "Tab." (207/24), Office of this Paper.

EXPERIENCED Traveller in Photographic Chemicals desires position with a reliable house; good connection with Cinematograph trade. Apply 207/19, Office of this Paper.

LONDON Traveller, with established connection amongst Chemists, open to represent first-class London house; Proprietary or quick-selling lines. Apply "A." (209/37), Office of this Paper.

REPRESENTATIVE, calling on Chemists and Grocers, Monmouthshire and Sonth Wales, is open to carry extra non-competing lines on good commission and part expenses. Apply "Storax" (197/25), Office of this Paper.

REPRESENTATIVE.—For first-hand Essential Oils and Synthetic Prodncts; London or provinces; qualified Chemist; 20 years' Retail and Laboratory experience; energetic, and of good address; could start immediately. P.C.B. 22/3, Office of this Paper.

TABLET-MAKER, with thorough knowledge of Coating and Granulating, seeks engagement; able to control. Apply 208/32, Office of this Paper.

TABLET-MAKER, Sugar- and Pearl-coater; young man desires situation. Please address replies to P.C.B. 22/4, Office of this Paper.

WANTED, position in Wholesale; completed Minor course. Apply 212/18, Office of this Paper.

YOUNG man seeks post; well up in Pharmaceutical Preparations and Toilets; Laboratory and works experience with leading firms; will accept anything with good prospects. Apply 208/28, Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

ENGLISHMAN requires berth afloat, Continent, or abroad; Parisian Retail experience. Turner, 97 Strand Street, Douglas, Isle of Man.

ITALY or FRANCE.—Lady Dispenser, qualified, fluent French, no previous Continential experience, desires berth with Chemist or Doctor. Apply 209/16, Office of this Paper.

QUALIFIED, 41, varied all-round experience, desires berth Spain, Canary Islands, or afloat. "Espana" (209/40), Office of this Paper.

MISCELLANEOUS.

10s. for 60 words; 1s. for every additional 10 words or less.

SHOP FITTINGS.—10′ 0″ Mahogany Serving Counter with Glass Cases in front; 6′ 0″ bent plate-glass Counter Showcase; 8′ 0″ Wall Showcase; several Drug Fittings and Dispensing Screens, Silent Salesman Showcases and Counters; every size. Write, stating wants, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

FILTER Press, new, by S. H. Johnson, Stratford; 12 chamber, 19″ cast-iron plates, water jacketed, head fitted with a self-contained steam pump of the direct simplex type, 4″ × 2″ × 4 stroke; may be seen working if required. Apply 209/12, Office of this Paper.

FOR Disposal, Colton Gelatin Pill-coating Machine, also Pill Plant, including Piping Presses and Cutters. Full particulars from The Standard Tablet Co., Ltd., Hove.

FOR Sale, Perfume Sprinklers: Crown-fixed tops, 90 gross 13 × 19 @ 11s., 200 gross 14 × 20 @ 12s., 100 gross 15 × 21 @ 13s., 100 gross 16 × 22 @ 14s.; slit fixed tops, 70 gross 13 × 19 @ 10s., 90 gross 14 × 20 @ 10s. 6d., 90 gross 15 × 21 @ 10s. 9d., 90 gross 16 × 22 @ 11s.; all from stock; cases free; carriage forward; samples sent. May Frères, 325 City Road, N. 1.

FOR Sale, about 3 tons Sulphuric Acid Pure, discoloured in varying degree, contained in 40 carboys each in strong wooden crate; very low price to clear. A. S. Price & Co., Ltd., Blackheath, Birmingham.

QUICK Sale required for 1 ton Potassium Permanganate B.P.; also 1 ton Benzoate of Soda B.P. Apply 21/13L, Office of this Paper.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

100,000 METAL-CAPPED Glass Tubes, 2½″ × 5/5″; 5s. 6d. per gross; immediate delivery. Quicks, Peckford Place, Brixton Road, S.W. 9.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

SCHOOL OF PHARMACY.

THE TUTORIAL COLLEGE, LIMITED.

THE new Pharmacy Session of the Tutorial College will begin on Monday, 4th October, *for students who were registered as students prior to 1st January, 1920.* A full 9 months' course of instruction will be given in all the subjects for the Minor Examination of the Pharmaceutical Society. The College trained 60 students for the July Examination, and since then the accommodation has been doubled. It is the best staffed and best equipped Pharmacy School, and the Chemistry and Pharmacy Laboratories are unrivalled in any private institution in the country. There is only a limited number of places, and immediate enrolment is necessary to secure one.

J. S. LEISHMAN, M.A., B.L., B.D., *Principal*, 30 Elmbank Crescent, GLASGOW.

CHANGE OF OWNERSHIP.

Mr. Cyril Halder, late manager of the British Toilet and Perfumery Co., has acquired the business of the Kredendar Co., Manufacturing Chemists and Toilet Specialists, of 24 Chilworth Street, Paddington, W.2, and will give his personal attention to all enquiries for Pharmaceuticals and Toilet Aids (Packed or Bulk), and trusts to maintain the cordial business connection already existing and invites enquiries from buyers, large or small, of the before-mentioned products. Special low rates can be quoted to large bulk buyers, and samples will be sent upon request.

A PRELIMINARY EXAMINATION

for the Licence of the Apothecaries' Hall, Dublin (registrable under the Medical Acts as a qualification in medicine surgery and midwifery), will be held in Apothecaries' Hall, Dublin, on October 23rd & 29th, 1920. Qualified Chemists (Great Britain or Ireland) will be entitled to a modified Examination. Persons with Army service, including Red Cross or V.A.D. service, will also be given special privileges. Full particulars of educational qualifications, certificates, service, &c., should be forwarded to the Registrar at least 7 days before the Examination. **Fee £3 : 3 : 0.**

APPLY—

Registrar, Apothecaries' Hall, Mary St., Dublin.

EXCHANGE COLUMN.

Twopence per word: Minimum 2s.

FOR DISPOSAL

SYKES' Hydrometer (Dring & Fage); complete in case; 70s. Cullingham, 6 Linden Grove, S.E. 15.

DRUGS AND CHEMICALS.

OFFERS, 1 lb. Sulphonal Tablets, 5 gr.; 600 Tab. Phenacet. Co.; 12 oz. Bism. Carb. Highley, 33 Granville Road, Blackpool.

OFFERS.—1 lb. Ol. Aurantii Dulc.; 1 lb. Ol. Thymi Alb.; ½ lb. Oil of Marjoram; 1 lb. Oil of Sage; 1 lb. Ess. Sherry. A., 39 Larkhall Rise, Clapham.

OPTICAL AND PHOTOGRAPHIC.

VOIGTLANDER Collinear, wide-angle Lens, cover up to ½-plate, for Sale. Charnley, Chemist, Bury.

FOR Disposal, Kodak Junior Autographic No. 1A Film Camera, second-hand; Brownie Autographic No. 2 Film Camera, second-hand; must sell both. Apply "Camera" (203/31), Office of this Paper.

WANTED.

WANTED, Medical Directory for 1920. Write, stating price, 14 Surrey Road, Harrow.

WANTED, second-hand 1A Folding Kodak, with Anastigmat Lens. Clear, Chemist, Leicester.

WANTED, a firm to undertake the bottling of Proprietary Articles. Particulars to 4/64B, Office of this Paper.

WANTED, Morstadt Cachet Machine, complete, to take twelve each size. Young, Pharmacist, Rowlands Road, Worthing.

WANTED, Pulv. Rad. Aristolochiæ; good price given; small or large lots, from Wholesale or Retail. Apply 204/28, Office of this Paper.

WANTED, "Pharmaceutical Journal" Formulas; Tricycle delivery van, small, in good condition. Abbott, Westgate, Shipley, Yorkshire.

WANTED to purchase, Tablet Machine, Ointment Mill, or any second-hand Laboratory Equipment, in good condition. 211/9, Office of this Paper.

WANTED, Himrod's Asthma Cure; any quantity; Pharmaceutical Formulas; Squires' "Companion and Pharmaceutical Codex." Apply 209/17, Office of this Paper.

PHARMACEUTICAL Books wanted; cash offers on receipt. Gower, Bookseller, 41 Voltaire Road, Clapham.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

MORPH. Hydrochlor. wanted in exchange for 25-oz. unopened tin Quin. Sulph., reckoned current market report prices in "Chemist and Druggist." E. R. Banner, M.P.S., 62 Byron Street, Liverpool.

SURPLUS STOCK

22 gross full-size **Tooth Brushes**, celluloid handles, at **63/-** gross; 5 gross **60/-**; 10 gross **58/-**, carriage paid.

12 lb. CALOMEL B.P., at **6/6** lb., carriage paid.

56 lb. Sod. Salicyl. B.P., **4/8** lb.—4-7 lb. carriage paid.

Camphor, ¼ oz. squares, **13/6** lb.—4 lb. carriage paid (40 lb.).

9 doz. 1 min. lens **Clinicals**, at **25/-** doz.; ½ min. lens front **33/6** doz, carriage paid.

40 WINCHESTERS EXT. CASC. LIQ. B.P. (May & Baker's), **3/3—2/10** lb. London or M'chester.

80 lb. CHLOROFORM PUR. (May & Baker's), 4 lb. at **5/3** lb.; 8 lb. at **5/3** lb.; 16 lb. at **5/1** lb.

12 Winch. Tr. Chlorof. et Morph. '85, at **3/10**—**3/8** lb. London or Manchester

100 lb. Pot. Permang. B.P., 1 lb. **5/9**; 7 lb. at **5/3**; 14 lb. at **5/-**, post free.

100 lb. Camphor Squares, ¼-oz., 2 lb. at **12/9** lb.; 4 lb. at **12/6** lb., post free.

Glauber Salts in 2 cwt. bags, **12/6** cwt. delivered London.

CLINICALS, ENGLISH N.P.I., 2 min. **28/-**; ½ min. **33/6** doz., own name free on 1 doz.

Ross Manufacturing Co.,

Wholesale Chemists,

92 KIRKDALE, SYDENHAM,

And George St., Patricroft, MANCHESTER.

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & CO., LTD., New Street Square, E.C. 4; and Published by the Proprietors, Morgan Brothers (Publishers), Ltd., at 42 Cannon Street, in the City of London.—*October* 2, 1920. [128]

Let these displays sell Cough Mixture for you.

HERE we can illustrate only two of our new Cough Mixture displays for this winter's trade. We have several others and all of them have that different look which arrests attention and focuses the eye of the passer-by on the goods.

You may say that you already stock Cough Mixtures. Very good, but we want you to sell them, and our advertising matter will do this if you give it a chance. We do not ask you to purchase a big quantity right off.

As a trial offer we are willing to supply a complete window-show free with an order for six dozen of the small size and three dozen large, or if you only want one size, a gross.





Now is the time to buy, and as we give sole selling rights for the district with several packs, be the first to order and secure for yourself a line, the sales of which are assured.

These are the Cough Mixtures we pack—Balsam of Linseed, Horehound and Honey (3 styles), Lung Tonic (2 styles), Pine Cough Balsam and White Pine Cough Syrup, also a Children's Cough Syrup. Two sizes for all styles except the Children's Cough Syrup. Retail Prices **1/3** and **2/-**. Write for sample and prices to-day.

W. B. CARTWRIGHT
LTD.
Makers of Pharmacy Specialities,
RAWDON, near LEEDS.

SAN SAT SALES STILL SOARING

SAN SAT—the non-abrasive, non-chemical hand-cleanser, is selling faster than ever.

Every section of the community is using it. Motorists, Engineers, Housewives, Gardeners, Painters, Miners, Mechanics, etc. etc.

Are **you** getting **your** share of this business?

The profit on **SAN SAT** is generous. It costs **7/6** per dozen to account, and we are giving a bonus of **six tins** to each dozen ordered. The Retail Price is **1/–**.

A Special Display Card sent with each order.

JOHN BELL, HILLS & LUCAS, LIMITED

Oxford Works, Tower Bridge Road - - - LONDON, S.E. 1.

Telegrams: "Atoleine Sedist London." ESTABLISHED 1798. Telephones: Hop 3584, 3585.

BOURNVILLE COCOA

"QUALITY AND FLAVOUR"

See the name "CADBURY" on every piece of Chocolate.

A New British Chemical Industry.

POTASH COMPOUNDS

MANUFACTURED IN ENGLAND FROM ENGLISH POTASH.

CARBONATE OF POTASH, B.P. BI-CARBONATE OF POTASH, B.P.
RED PRUSSIATE OF POTASH. PERMANGANATE OF POTASH, B.P.
YELLOW PRUSSIATE OF POTASH. CHLORIDE OF POTASH, B.P.

Orders for less than 100 lbs. not accepted.

Telegrams: "Cyanobrit, Cannon, London."

The British Cyanides Company, Ltd.

Sales Office: 49 Queen Victoria Street, London, E.C. 4.

Telephone: Central 6273 (2 lines).

Printed for the Proprietors by Spottiswoode, Ballantyne & Co., Ltd., New Street Square, E.C. 4, and Published by the Proprietors, Morgan Brothers (Publishers), Ltd., at 42 Cannon Street, in the City of London.—*October* 2, 1920.